Volume 165 No. 23

Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

June 7 1954

"AA Quality" Chemicals

Backed by over 85 years' experience, AA QUALITY Chemicals are noted for purity and uniformity. Inquiries solicited —your particular needs will receive prompt, co-operative attention. AA QUALITY Chemical products include:

TRISODIUM PHOSPHATE • DISODIUM PHOSPHATE, Crystalline
PHOSPHORIC ACID 75% Food Grade
PHOSPHORIC ACID 85% N. F. Grade
PHOSPHORUS PENTASULPHIDE • PHOSPHORUS SESQUISULPHIDE
PHOSPHORUS RED AMORPHOUS
AMMONIUM, MAGNESIUM, SODIUM and ZINC FLUOSILICATE
SODIUM FLUORIDE and AMMONIUM FLUOBORATE
PHOS-FEED® BRAND DICALCIUM PHOSPHATE

PHONE OR WRITE CHEMICAL SALES DIVISION

The AMERICAN AGRICULTURAL CHEMICAL Co.
50 Church Street, New York 7 • BArclay 7-1400
P. O. Drawer 2458, Detroit 31, Mich. • Vinewood 2-0146

DENATURED ALCOHOL
PROPRIETARY SOLVENTS

WM. S. GRAY & CO.
342 MADISON AVENUE, NEW YORK 17, N. Y.
Cable Address: GRAYLIME Phone MUrray Hill 2-3100

RECEIVED
JUN 7 1954
THE CHEMISTS' CLUB
LIBRARY

PUBLICKER
INDUSTRIAL CHEMICALS

PUBLICKER INDUSTRIES INC.
1429 WALNUT STREET
PHILADELPHIA 2, PENNA.
TEL. LOCUST 4-1400
One of the World's Largest Producers of Solvents

PURE ALCOHOL
SPECIALLY DENATURED ALCOHOL—All Formulae
COMPLETELY DENATURED ALCOHOL
PACO SOLVENT—(TR590)
All Products Available in 190 & 200 Proof

HIGH QUALITY

SODIUM SULPHATE

(Rayon Grade)

PACKED IN 100-LB BAGS

PRIOR CHEMICAL CORPORATION
420 LEXINGTON AVENUE
NEW YORK
CABLE: PRIORCHEM NEW YORK
PHONE: LExington 2-9811

SURFEX*

PRECIPITATED CALCIUM CARBONATE

for Paints and Plastics

SURFEX is DIAMOND ALKALI's resin-coated, multi-purpose synthetic $CaCo_3$. Particle size 1 to 5 microns.

Widely used in vinyl compounds and in interior gloss paints, enamels, undercoats and primers.

★

DIAMOND SALES OFFICES: New York, Philadelphia, Pittsburgh, Cleveland, Cincinnati, Chicago, St. Louis, Memphis and Houston. Also representatives in other principal cities.

*®

DIAMOND ALKALI COMPANY
CLEVELAND 14, OHIO

DIAMOND ALKALI CHEMICALS

EVERY FORM OF BORATES FOR EVERY POSSIBLE USE

borax
boric acid

Technical and U. S. P.: GRANULAR, CRYSTAL, POWDERED IMPALPABLE
Special Quality (C. P. +): GRANULAR, POWDERED

OTHER BORATES
BORAX 5 MOL . . . *a form of Sodium Tetraborate, newly available . . . send for special bulletin.*
ANHYDROUS BORAX
BORAX GLASS
ANHYDROUS BORIC ACID
AMMONIUM BIBORATE
AMMONIUM PENTABORATE
POTASSIUM PENTABORATE
SODIUM METABORATE
SODIUM PENTABORATE
ANHYDROUS RASORITE*

RASORITE SPECIAL CONCENTRATES*
FERTILIZER BORATES*
(Regular and High Grade)
**Sodium Borate Concentrates*

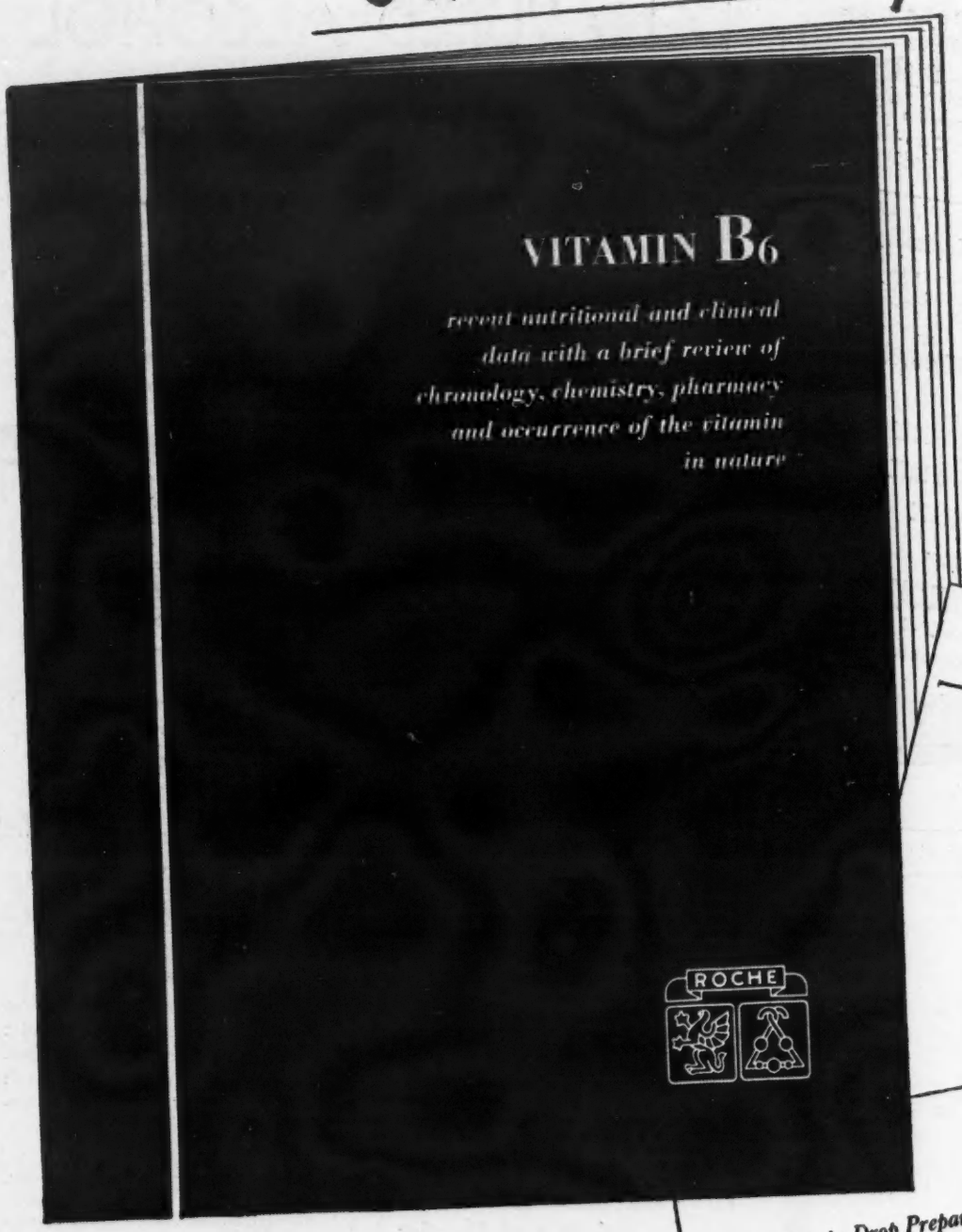
HERBICIDES
BORASCU®*...BORASCU 44 CONCENTRATED BORASCU*
POLYBOR®
POLYBOR-CHLORATE ®

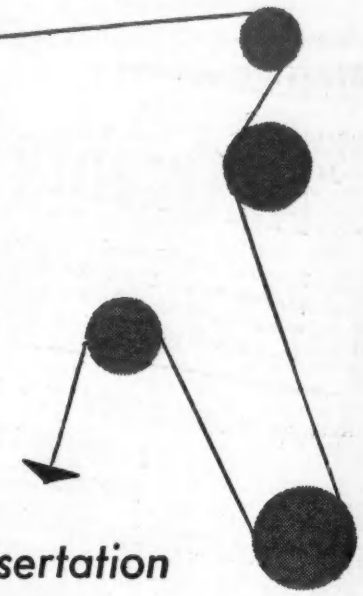
Information, Bulletins, Quotations, Sent Promptly on Request

PACIFIC COAST BORAX CO.
DIVISION OF BORAX CONSOLIDATED, LIMITED
NEW YORK • LOS ANGELES • CLEVELAND • CHICAGO

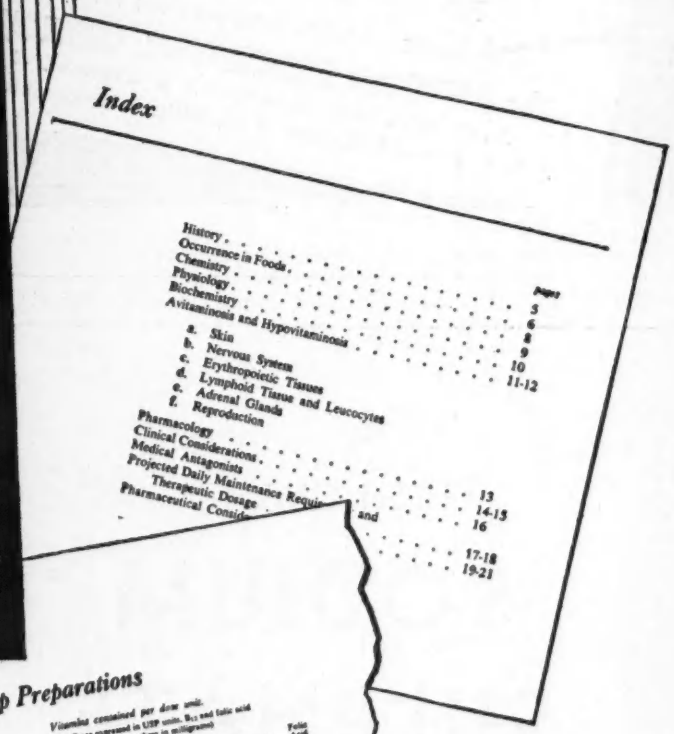
MANUFACTURERS OF FAMOUS "20 MULE TEAM" PACKAGE PRODUCTS

Just off the press


VITAMIN B6
recent nutritional and clinical data with a brief review of chronology, chemistry, pharmacy and occurrence of the vitamin in nature
ROCHE



The new Roche dissertation on pyridoxine



Polyvitamin Drop Preparations
Vitamins contained per dose unit.
(Vitamins A and D are expressed in USP units, B12 and folic acid in micrograms, and all others in milligrams)
Mfr. Dose A D B1 B2 B6 Niacin-amide Panthe-nose C Bs B12 Folic Acid
#1 0.6 5,000 1,000 1 0.4 1 5 25* 50 — —
#2 0.6 5,000 1,000 1 0.5 1 10 10** 50 — —
#3 0.6 5,000 1,000 1 1 1 10 3* 75 5 —
#4 0.6 5,000 1,000 1 1 1 10 — 37.5 — 0.25
#5 0.6 5,000 1,000 1 1 1.5
#6 0.6 5,000 1,000 1 1 5
#7 0.6 5,000 1,000 1 1 1
#8 0.6 5,000 1,000 1 1 1
#9 0.6 5,000 1,000 1 1 1
#10 0.6 5,000 1,000 1 1 1
* as sodium pan
** as pantothen
ntent of Multivitamin Capsules or Tablets
References
1. Goldberger, J., and Lillie, R. D., Public Health Reports 41:1025, 1926.
2. Gyorgy, P., Nature, 133:498, 1934.
3. Gyorgy, P., Biochem. J. 29:741, 1935.
4. Birch, T. W., Gyorgy, P., and Harris, L. J., Biochem. J. 29:2830, 1935.
5. Kuizenga, J. C., and Stevens, J. B., Proc. Soc. Exp. Biol. Med. 30:64, 1932.
6. Miller, R. T., Kuizenga, J. C., and Stevens, J. B., J. Am. Chem. Soc. 61:1237, 1939.
7. Harris, L. A., and Folkers, K., Science 89:347, 1939.
8. Gyorgy, P., and Eckhardt, R. E., Nature 144:512, 1939.
9. Snell, E. E., Guirard, B. M., and Williams, R. J., J. Biol. Chem. 143:159, 1942.
10. Snell, E. E., J. Am. Chem. Soc. 66:2082, 1944.
11. Harris, S. A., Heyl, D., and Folkers, K., J. Am. Chem. Soc. 66:2098, 1944.
12. Harris, S. A., Heyl, D., and Folkers, K., J. Biol. Chem. 154:315, 1944.
13. Snell, E. E., J. Biol. Chem. 154:313, 1944.
14. Sarma, P. S., Snell, E. E., and Rhodjum, C. A., J. Biol. Chem. 165:55, 1946.
15. Snell, E. E., and Rennefeld, A. N., J. Biol. Chem. 157:475, 1945.
16. Chisholm, V. H., and Williams, R. J., THE B VITAMIN CONTENT OF FUNGI. Univ. of Texas Pub. No. 4137, Biochem. 1941, p. 185.
17. Sarma, P. S., Snell, E. E. and Rhodjum, C. A., THE BIOASSAY OF VITAMIN B6 IN NATURAL MATERIALS, J. Nutr. 33:121, 1947.
K., THE VITAMIN B CONTENT OF MILK FROM ANIMALS OF DIFFERENT SPECIES. Univ. of Texas Pub. No. 4237:97, 1942.
89. Macy, I. G., COMPOSITION OF HUMAN COLOSTRUM AND MILK. Am. J. of Diseases of Children 76:509, 1949.
90. Henderson, L. M., Waisman, H. A. and Elvehjem, C. A., DISTRIBUTION OF PYRIDOXINE (VITAMIN B6) IN MEAT AND MEAT PRODUCTS, J. Nutr. 21:589, 1941.
91. Barnes-Wright, E. C., THE MICROBIOLOGICAL ASSAY OF PYRIDOXINE, Biochem. J., 39:x, 1945.
92. Snell, E. E., J. Biol. Chem. 157:491, 1945.
93. Novak, A. P., Gams, A. B., Liszas, J. A., and Rudolff, E. B., FACTORS AFFECTING THE MICROBIOLOGICAL ASSAY OF PYRIDOXINE IN MULTIVITAMIN PRODUCTS, J. A. Pharm. Assn. 42:501, 1953.
94. Snell, E. E., J. Biol. Chem. 158:497, 1945.
95. Holden, J. T., and Santi, E. E., J. Biol. Chem. 170: 599, 1949.
96. McCall, K. B., Waisman, H. A., Elvehjem, C. A., and Jones, E. E., J. Nutrit. 31:685, 1946.
97. Morbeck, C. W., Stebbins, E. B., and Barton, M. Trans. N. Y. Acad. Sci. 9:291, 1947.
98. Miller, R. C., and Bentnson, C. A., J. Biol. Chem. 157:551, 1945.
99. Clarke, M. P., and Lochyche, M., J. Nutrit. 1943.
100. Cartwright, G. E., and Wintrobe, M. M., J. Biol. Chem. 172:597, 1948.
101. Reid, J. T., Hoffman, C. F., and Dutcher, Arch. Pathol. 39:331, 1945.
102. Stevenson, G., and Brown, [illegible]
(one [illegible] capsule)
in USP units, B12 and folic acid others in milligrams)
Niacin-amide Panthe-nose C B12 Acid Folic
25 5* 75 10 — —
20 3** 75 1 — —
25 5 50 8 — —
25 5* 100 — — —
30 5* 100 0.2 — —
30 10* 100 — 2.0 0.5
25 5*** 75 8 — —
0 — 50 — — —
1 75 — — —
5 30 — — —
8 35 2 — —
3.5* 50 3 — —
* amounts contained in two-tablet dose
in the various types of pharmaceutical [illegible]. Manufacturing averages normally [illegible] should provide for losses that may occur [illegible] of label claim after a year or more of [illegible]
and B-complex pharmaceuticals, including preparations, can easily be made to provide [illegible] with the recent data on human requirements. [illegible] usual pharmaceutical preparations normally fail [illegible] and can easily be determined by experiments before

The release by the Food and Nutrition Board of the National Research Council of its statement for pyridoxine makes this new publication unusually timely.

Recent clinical and nutritional data, particularly on pregnancy and infant feeding, call attention to the importance of Vitamin B_6 in the diet.

Roche makes this extensive dissertation available without charge. If you have not yet received your copy just ask your Roche representative for one, or write the Vitamin Division.

ROCHE

PYRIDOXINE HYDROCHLORIDE

(Vitamin B_6)

VITAMIN DIVISION • **HOFFMANN-LA ROCHE INC.** • NUTLEY 10, N. J.
NUtley 2-5000

Pacific Coast distributor: L. H. Butcher Company—San Francisco • Los Angeles • Seattle Portland • Salt Lake City

In Canada: Hoffmann-La Roche Limited, 286 St. Paul Street, West; Montreal, Quebec

RECEIVED
JUN 7 1953
THE CHEMISTS' CLUB
LIBRARY

Oil, Paint and Drug Reporter

Volume 165 No. 23 | 30 Church Street, New York 7, N. Y. | June 7, 1954

Antibiotic Rule Repeal Meeting Set This Week

A new effort to bring about an end to government certification of antibiotic drugs, or at least reduce the number of such drugs which must meet this requirement before they can be placed on the market for sale, is scheduled to get under way this week in the drug industry.

Each of the producers of certified antibiotics has been invited by the American Drug Manufacturers Association to send representatives June 10 to the Commodore hotel, New York, for a discussion of the matter with the legislative section of the association and to make recommendations for action to the ADMA executive committee.

Antibiotic drug certification has been under review by two committees of the ADMA for the past several months, reflecting a growing feeling among producers that certifications no longer serve an essential purpose and could well be dispensed with by the government with complete safety to the public. One is a committee of technical experts under the chairmanship of Dr. Roland H. Nole, Bristol Laboratories, Inc., and the other is a legal committee, of which David Rasch, of Winthrop-Stearns, is chairman.

Old Report Made Available

At the request of ADMA earlier in the year, the Food and Drug Administration made available an extensive report on its certification operations extending back to 1945 when the first certification law was enacted. The report was a record of each batch of the drugs examined and approved by the agency, as well as those rejected and the reasons therefore.

An analysis has been made of this report by the technical experts committee which will be submitted at the June 10 meeting. The analysis is understood to give statistical support to the argument that certification is no longer needed and should be discontinued. The legal committee will report at the same time on various legal ways of bringing about an

—Continued on page 82

Insecticide Mixture Bids Are Being Sought by India

Bids are being invited by the Indian Supply Mission for purchase of 1,000 tons of an insecticide mixture of 75 percent ethylene dichloride and 25 percent carbon tetrachloride to be used in locust control in India. The bids will be received until 9:45 a.m. on June 22 by the Indian Supply Mission, 2536 Massachusetts avenue, Washington 8, D. C. Full details on the bidding are obtainable from the Office of Small Business of the Foreign Operations Administration.

Trading With Enemy Act Hearings to Begin Today

Hearings are scheduled to begin today before a subcommittee of the house interstate commerce committee on legislation to modify the trading with the enemy act to permit the return of vested enemy-owned property to its former owners.

The committee has nearly a dozen bills before it dealing with return of the property to named individuals. Instead of dealing with each case separately, the committee has decided to consider a general amendment to the law which would permit the handling of the claims for return of the properly administratively by the Department of Justice.

Pollution Control Approved By Senate in Housing Bill

A program of federal aid to industry and builders in reducing air pollution by smoke and other contaminants was approved last week by the senate as part of the Administration's housing program for 1954 contained in H. R. 7839. The bill was sent back to the house for approval of the senate amendments.

A fund of $50,000,000 is established under title 8 of the bill from which loans may be made by the government in cooperation with banks and other lending institutions to finance the remodeling or installation of equipment to reduce the amount of smoke or air pollution in the community in which the plant is located.

The bill also authorizes an appropriation of $5,000,000 for the Secretary of Health, Education and Welfare to conduct a program of technical research and studies concerned with:—(1) the causes of air pollution; (2) devices and methods of prevention, or elimination of air pollution, and (3) guidance and assistance to local communities in smoke abatement and air pollution prevention and control.

Loans to industry would extend over a period of twenty years and would be made only if it was determined that it would result in substantial reducing of air pollution in a community.

Tallow Buying Authorized

The Foreign Operations Administration last week issued an authorization to Greece for the purchase of $100,000 of tallows and greases from the United States and possessions with FOA funds. The contract period runs until August 31, and the delivery period until October 31.

Rubber Plants Commission Starts Weeding Out Bidders This Week

Preliminary negotiations looking towards getting the highest price obtainable for the government's synthetic rubber facilities are scheduled to get under way this week between the Rubber Facilities Disposal Commission and some thirty-four companies who offered to purchase or lease the plants.

Following the opening of bids May 27, the commission immediately began the process of screening the offers to determine eligibility and establish a system of priority for entering upon the negotiations. The commission, by law, has until December 27 to negotiate the sale with prospective purchasers, following which it must submit a program of disposal to congress for its approval or rejection.

Prices Being Kept Secret

Prices being offered for the various plants and facilities are being kept secret by the commission until such time as the commission "considers such disclosure desirable in furtherance of negotiations and development of a complete program for presentation to congress." The thirty-five companies bidding for the facilities submitted some fifty-six separate proposals and nineteen alternate proposals.

In a progress report to congress June 1, the commission said that in the forthcoming negotiation period, prices, competitive aspects with particular regard to small business enterprises, national security, technical competence and financial responsibility will be considered in discussions with industrial management. The law requires that the Attorney General also be consulted and pass upon the recommended sale of all facilities.

In conducting the negotiations, the commission will use the highest amount proposed to be paid for each facility as the basis for negotiating, and will negotiate first with the bidder offering the highest amount. The report added:—

Meeting Terms of Disposal Act

"The disposal act imposes a number of conditions which must be met in order that the program presented to the congress may be acceptable. It is the opinion of the commission that the last several months of 1954 will be required to meet all these conditions, including the preparation and execution of contracts of sale, submission of the program to the Attorney General, and preparation of the commission's report to the congress.

"While the commission intends to afford prospective purchasers ample time for negotiation, the commission announced in April that it may at any time after May 27th, exercise its right to accept that proposal which represents, in the commission's judgment, the highest monetary return to the government with respect to each facility consistent with all requirements of the act, and thereafter to proceed with the preparation of contracts of sale.

"During negotiations, the commission may negotiate with respect to any facility with any bidder who has submitted a pro-

—Continued on page 83

Chemical Statistical Service Is Weighed by Govt., CMRA

A panel of the Interdepartmental Chemical Statistics Committee and the statistics committee of the Chemical Market Research Association explored the problems and possibilities of broadening the government's chemical statistical service to industry at a one-day meeting June 2 in the Department of Commerce Building, Washington, D. C.

A full-discussion of a six-point agenda produced a general understanding that it would be desirable to expand the statistical reporting service, if necessary funds and personnel could be obtained to do the job. Further consideration will be given to the problem by the two groups.

Following introductory remarks by J. A. DeCarlo of the Bureau of Mines, chairman of the ICSA, and by E. Scott Pattison of the Association of American Soap and Glycerine Producers, chairman of the CMRA statistics committee, discussions were centered on six topics:—

Reporting of industry statistics to government collecting agencies. Is a directory of manufacturers of inorganic chemicals needed. A directory of chemical statistics published by government agencies. The need of industry for chemical end-use statistics. The collection and publication of chemical statistics and related information on a regional basis. The need for information in the foreign trade field.

Alcohol Shipping Rules Eased by Revenue Service

The alcohol tax unit of the Internal Revenue Service has ruled that holders of alcohol permits may arrange for bulk shipments of ethyl acetate and proprietary solvents by barge transportation under certain conditions. Before engaging in such transactions, permission should first be obtained from the commissioner and the procedure prescribed for tankcar and tank truck shipments of such materials as set forth in sections 182.841(b) and 182.847(a) of regulations No. 3 must be followed.

Suitable dock and storage facilities must be made available. The carrier operating the barge in such cases should be one engaged in the regular transportation of merchandise and qualified to make interstate shipments, or the barge should be owned, operated, or controlled by the producer or his bona fide agents. The shipment, sale, and delivery and/or repackaging of the proprietary solvents and ethyl acetate must otherwise conform with the applicable provisions of regulations No. 3.

Announcement also was made of the following other rulings:—

Tankcar shipments of alcohol for shipment in bond, which have been loaded,

Continued on page 63

Toilet Goods Makers Said To Violate the Sherman Act

Filing in the United States District Court at New York of four separate civil antitrust suits against Lanvin Parfums, Inc.; Parfums Corday, Inc.; Guerlein, Inc.; and Empro Corporation, all of New York, has been announced by the Department of Justice. At the same time a consent judgment was filed in the suit against Empro Corporation, which becomes effective in 120 days.

Each of the companies deals in toilet goods such as perfumes, toilet water, cosmetics, and related products, bearing the trademarks of "Lanvin," "Corday," "Guerlain" and "Lentheric," respectively. They each were charged with violating section 2 of the Sherman act.

In each action the complaint alleges that the defendant has attempted to

Continued on page 63

Calcium Carbide Facility Bids Are Rejected by GSA

Each of the three bids offered for purchase of the government's calcium carbide plant at Ashtabula, Ohio, were rejected last week by the General Services Administration and efforts will be made to dispose of the plant under a negotiated sale, it was announced.

The highest bid received was $151,000 for the plant which cost the government $3,500,000 to build during World War II (OPD 5/31/52). At one time the government was offered $700,000 for the plant but rejected the offer because the plant was needed in the synthetic rubber program. Negotiations for the sale of the plant will be carried on for the government by John Skeen, regional director of GSA region 5. When negotiations have been completed, Mr. Skeen will transmit his recommendations to Washington for final approval.

Manufactures Bill to Senate

House bill 8487 providing for a census of manufactures and trade next year on the basis of 1954 activities was reported to the senate for passage last week by the senate post office committee. The bill was reported without amendment from the form in which it previcusly was passed by the house.

Dyes Production, Sales Last Year Showed Gain Over Levels of 1952

Total production of dyes in 1953 was 166,000,000 pounds, or 14.5 percent more than the 145,000,000 pounds produced in 1952, the Tariff Commission reported last week.

Sales in 1953 amounted to 152,000,000 pounds, valued at $167,000,000, compared with 149,000,000 pounds, valued at $171,000,000, in 1952—an increase of 2 percent in quantity and a decrease of 2 percent in value. The average unit value of all sales was $1.10 per pound in 1953 compared with $1.15 per pound in 1952.

Production of dyes grouped by Color Index number was 117,000,000 pounds in 1953 compared with an output of 101,000,000 pounds in 1952, an increase of 16 percent. Sales of Color Index dyes totaled 108,000,000 pounds, valued at $90,000,000, in 1953, compared with 102,000,000 pounds, valued at $84,000,000 in 1952—an increase of 6 percent in quantity and 7 percent in value of sales.

Production of Prototype Dyes

The production of prototype dyes in 1953 was 33,000,000 pounds, or 37.5 percent more than the 24,000,000 pounds produced in 1952. Sales of these dyes increased to 30,000,000 pounds, valued at $50,000,000, in 1953, compared with 25,000,000 pounds, valued at $47,000,000, in 1952. On the other hand, production and sales of ungrouped dyes were smaller in 1953 than they were in 1952. The output of such dyes was 16,000,000 pounds in 1953, compared with 20,000,000 pounds in 1952 and sales of ungrouped dyes in 1953 totaled 14,000,000 pounds, valued at $28,000,000, compared with 22,000,000 pounds, valued at $40,000,000, in 1952.

Four chemical classes of dyes accounted for 84.2 percent of the total quantity of all dyes produced in 1953:—Azo dyes, for 34.5 percent; anthraquinone vat dyes, for 23.1 percent; sulfur dyes, for 13.6 percent; and indigoid and thioindigoid dyes, for 13.0 percent. The output of each of the four classes was greater in 1953 than in 1952. The production of sulfur dyes increased 19 percent; azo dyes, 15 percent; and both the anthraquinone vat and the indigoid and thioindigoid dyes, 7 percent.

Importance of Vat and Direct Dyes

By class of application, two chemical classes of dyes accounted for 56 percent of the total output of all dyes in 1953; they are vat dyes, which accounted for 37 percent, and direct dyes, which accounted for 19 percent. Output of direct dyes increased 17 percent in 1953 compared with 1952 and that of vat dyes increased 7 percent.

Two chemical classes of ungrouped dyes accounted for 71 percent of the total

—Continued on page 66

Antitrust Suit Against Rubber Firms Ended

A consent judgment terminating antitrust litigation against United States Rubber Company, New York, and Dunlop Rubber Company, Ltd., London, England, has been filed in the United States District Court at New York.

The government's complaint was filed on December 16, 1948, charging defendants with unreasonable restraints of foreign and interstate commerce in the production and sale of natural latex, various latex products and rubber thread and elastic yarn and products made from such thread and yarn. Among the practices complained of were price fixing and cross-licensing agreements, the pooling of foreign patents which were licensed on exclusive and restrictive terms, and the formation of a world-wide cartel with division of territories and other restraints supported by a system of jointly-owned companies and by allocation of trademarks, among them the trademark "astex" for elastic yarn and products thereof.

The judgment terminates the objectionable agreements, prohibits their renewal and enjoins the practices which the government had complained of, such as division of territories, impediments to exports and imports, exclusion from markets, price fixing, common acquisitions and certain agency and distributorship relationships.

The judgment imposes on the defendants, who control the management of the patent holding company, obligations which amount to a duty to grant to every applicant, upon payment of reasonable non-discriminatory royalties and other similar terms and conditions, non-exclusive licenses under the pooled foreign patents and related technical information, and to grant immunities insuring unimpeded imports into the United States of products manufactured under such licenses.

Under the terms of the judgment one of the jointly-owned companies is to be dissolved. As to the other companies owned jointly by the two defendants, the judgment contains provisions which divide them into two groups, those in one group to be managed by United States Rubber Company and those in the other group to be managed by Dunlop Rubber Company. The basic idea underlying this division is that one of the defendants should retain only its proprietary and financial interest in a company and be excluded from all acts of ordinary management.

International Nickel Elects Frank LaQue Vice-President

Frank L. LaQue has been elected vice-president of International Nickel Company, New York, and manager of its development and research division. An authority on corrosion, Mr. LaQue succeeds in both positions Thomas H. Wickenden, who has attained retirement age but will continue to serve the company as a consultant on special projects. O. B. J. Fraser and Donald J. Reese will serve as the assistant managers of the division.

Mr. LaQue has been heard of the corrosion engineering section of International Nickel's development and research division in New York since 1945. Mr. LaQue became associated with the company in 1927, devoting his activties to the field of corrosion and corrosion-resisting materials. He was assistant director of technical service on mill products from 1937 until 1940, when he became engaged in development activities on all applications of both ferrous and non-ferrous nickel-containing alloys.

Mr. LaQue has been head of the cor- of the development and research division since 1947. He joined International Nickel in 1917, as metallurgical engineer at the Bayonne, N. J., works. Mr. Reese has been in charge of the technical field sections of the development and research division since 1947, has headed the iron and non-ferrous casting section since 1945 and the ductile iron section since 1948.

Ammonia Shipments Start From Brea Chemical Plant

The first shipments of agricultural ammonia from the new $13,000,000 plant at Brea, Calif., have been announced by Brea Chemicals, Inc., subsidiary of Union Oil Company of California. Half-capacity trial runs of the new plant are nearly completed and full production is scheduled for mid-June. The ammonia is converted to Brea aqua ammonia for tank ship or barge delivery to seven Brea storage terminals. Five other terminals receive the product as ammonia and convert it to aqueous ammonia nitrogen fertilizer solution for delivery to local growers.

Contents of This Issue

Acrylonitrile Bulletin Offered..... 49
ACS N. Y. Section Elects Dr. Sears..... 45
ACS Southwest Meeting in Fort Worth..... 7
ACS to Assist Campaign for Gibbs Memorial 4
Argentine Linseed Oil Availability Told.... 73
Agriculture Department Continues Offerings 61
Alcohol Shipping Regulations Eased..... 3
Allied Completes Plans to Add Mutual..... 5
Ammonia Shipments Started by Brea..... 4
Ammonium Thiocyanate Plans Told by Halby 43
Antibiotic Rule Repeal Meeting Set..... 3
Antitrust Suit Against Rubber Firms Ended. 4
Arabol Post to Weingartner..... 39
Armour Picks Representative..... 74
Attapulgus, Edgar Stockholders to Meet.... 42
Barrett Publishes Article on Firm's Growth. 5
BIMS Plans Golf Matches..... 45
Blaw-Knox Will Erect Fat-Splitting Plant.. 41
Brown-Allen Oil Division Appoints..... 41
Buffalo, Paint Club Arranges Tournaments. 73
Bureau of Foreign Commerce Post..... 38
Calcium Carbide Bids Rejected by GSA.... 3
California Standard Oil Plans 2d Cat Cracker 65
Canadian Petrofina Units Being Erected.... 63
Canco Atlantic Division Sales Mgr. Named. 39
Carbide Names Vice-Presidents..... 5
Carswell CSC Board Member..... 43
Celanese Reassigns Three..... 73
Chemical Items in Russia-Netherlands Pact. 42
Chemical Statistical Service Weighed..... 3
Colloid Chemists Convene This Month..... 39
Cyanamid Appoints Dupras..... 42
Delaware Chem. Appoints 2 Dist. Sales Mgrs. 39
Devoe & Raynolds Units Elect Martin..... 74
Dow Retirement Plan Told..... 38
Drug Law Group Sets August Meeting..... 7
DuPont Appoints Bates to New Plan. Post. 74
DuPont Assigns Dietz to Cleveland..... 72
DuPont Div. Sets Up New Unit..... 45
DuPont Offers Copolymer..... 52
Dyes Production Showed Gains..... 3
Esso Elects Directors..... 4
Ethanolamines Bulletin Available..... 45
Ethyl Promotes Distler..... 65
Extruded Plastics Appoints..... 73
Fragrance Foundation Picks Mrs. Jameson.. 4
Fritzsche Adds 3 Flavoring Items..... 57
Gen'l Tire Chemical Unit Names Managers. 45
Gen'l Tire Post to Pollock..... 43
Glass Container Shipments: April..... 61
Glycerine Research Award Names Sought.. 60
Great Lakes Oil Allows Stock Increase..... 40
Hanna Paint Relocates..... 46
Humberstone Named by Airco..... 5
Insecticide Mixture Bids Sought by India.. 3
International Nickel Elects LaQue..... 4
Int'l Paper to Start Sack Plant Operations. 40
Joffe Opens Office in New York..... 39
Jones-Dabney Appoints Director..... 73
Junice Labs Incorporates..... 58
Lilly Appoints Rench to Personnel Post..... 61
Lilly Post to William A. Rugg..... 5
Lime Superconcentrate Developed by USDA 58
Malcolm Hollingshead Research Chief..... 45
Manufactures Bill to Senate..... 3
MCA Makes Emmerich Board Chairman.... 5
MCA Reports Accident Rate Drop..... 4
Mercury Put Under Control..... 4
Metal Cans Shipments: March..... 43
Minn. Mining Elects Two..... 75
Monsanto Names Dr. Cave..... 38
National Aniline Div. Appoints Monk..... 52
National Lead Names Three at Cincinnati... 75
N.Y.U. Announces Opening of New Lab.... 49
Oils, Oilseed British Pacts End Early..... 46
Oil Storage Study Under Way..... 5
Oils, Fats Output: April..... 7
Palm Oil, Kernel Record Ship. Seen in '53.. 78
Panama Tightens Drug Importation Rules.. 57
Phillips, Husky Report Gas Strike..... 65
Phosphate Coating for Zinc Told by Pennsalt 42
Pitts. Coke Chooses Zabor for New Post.... 52
Pitts. Plate Assigns Wagen..... 75
Platformer Construction Started by Gulf... 66
Pollution Control Approved by Senate..... 3
Polyethylene Unit Being Built..... 5
Prutton Is FMC Unit Vice-Pres..... 40
Rubber Plants Commission Weeds Out Bids.. 3
SCI Parley Slated..... 7
Shell Chemical Reorganizes Dept..... 5
Shield Adds Directors..... 39
Small Nickel Holdings Need Not Report.... 40
Solvay Raises Caustic Soda..... 4
Staley Elects Directors..... 73
Standard of Ind. Sets Up Specties Sales Dept. 65
Straygold Has Consulting Service..... 61
Sulfur Funds to France..... 40
Sun Oil Names Langford..... 66
Surfactants Output Up in '53..... 5
Synthetic Fertilizers Moves Office..... 66
Tallow Buying Approved..... 3
Tin Plant Continuance Backed..... 5
Toilet Goods Makers and Sherman Act..... 3
Trademark Ass'n Parley Tells Plans..... 7
Trading With Enemy Act Hearings to Begin. 3
Tung Nuts Milling Called Seasonal..... 73
US Revenue Returns Reported for March.. 45
U. S. Rubber Opens Santa Ana Plant..... 41
Wyandotte Unit Names Buck..... 65

Market Reports

(See Page 9)

General Features

Advertisers Index..... 83
Association Meeting Dates..... 7
Bids Wanted..... 46
Book Review..... 34
Classified Advertisements..... 82
Consulting Chemists and Engineers..... 46
Coal Chemicals Output..... 50
Crude Oil Stocks..... 64
Current Market Quotations..... 9
Editorials..... 34
Forum..... 34
Imports..... 62
Imports Detained..... 55
Obituaries..... 41
OPD Price Index..... 4
Washington Talks It Over..... 34
Trade Briefs..... 38, 42, 61, 65

ACS Will Assist Campaign To Finance Gibbs Memorial

A bust of chemist Josiah Willard Gibbs in New York University's Hall of Fame is the goal of the New York section of the American Chemical Society, which has announced that it will act as receiver of contributions for this purpose from members of the Society and others.

The memory of Willard Gibbs (1839-1903), Yale University professor for thirty-two years, who has been called the greatest theoretical scientist ever produced by the United States, was honored by New York University in 1950 by his election to the Hall of Fame. However, in spite of contributions by the National Academy of Sciences, the American Association for the Advancement of Science, the American Philosophical Society, the American Academy of Arts and Sciences and private sources, $5,900 of additional funds will be necessary to have a bust created and installed in the colonnade on the banks of the Hudson River.

Esso Chooses Directors, Names General Counsel

Robert H. Scholl has been elected vice-president, director and member of the executive committee and Harold G. Mangelsdorf has been made a director of Esso Standard Oil Company, New York. Former general counsel of the company, Mr. Scholl will be succeeded in that post by Einar B. Paust, who has been associate general counsel since 1951. Mr. Mangelsdorf, who was named general manager of manufacturing in November, 1953, will retain that position.

Mercury Put Under Control

Exports of mercury were placed under positive control June 5 by the Bureau of Foreign Commerce because of the short supply situation. Effective as of that date, no shipments of the article, schedule B No. 664,565, may be made to any destination except Canada, without having a validated license from the bureau.

Fragrance Foundation Picks Mrs. Jameson as Its Director

Mrs. Kay Jameson has been named executive director of the Fragrance Foundation to succeed Mrs. Miriam Gibson French and will assume her new duties July 1. Mrs. Jameson goes to the new post from Richard Hudnut Salon, where she has been director since 1951.

Mrs. Jameson began her career in the beauty field as assistant to Ann Delafield, in an administrative capacity, of the Hudnut Salon. She left Hudnut in 1945 to become beauty editor of *Parents' Magazine* and its associate publications, where she remained until 1950, at which time she was appointed beauty editor of *Today's Woman*, Mrs. Jameson left that magazine in 1951 to rejoin the Hudnut Salon as its director.

MCA Reports Accident Rate Drop in Chemical Industry

A report issued on behalf of the chemical industry by the Manufacturing Chemists' Association has set forth the findings that great job safety is to be found in chemical plants. Some 174 plants of twenty-two chemical companies operated throughout 1953 without a single lost-time accident, the report states.

The over-all record shows that member companies participating in the 1953 program established a new low accident frequency rate of 3.69 per 1,000,000 manhours worked. The industry shows a 52 percent reduction in accidents from 1946 to 1953.

Metals Post Goes to Adams

Clyde M. Adams, of the Bohn Aluminum-magnesium division of the Business has been appointed director of the aluminum-magnesium division of the business and Defense Services Administration. Mr. Adams is on loan from his company and succeeds R. G. Boyd of Kaiser Aluminum & Sales, Inc., who has been advanced to acting assistant administrator of BDSA.

Oil, Paint and Drug Reporter, Vol. 165, No. 23, June 7, 1954. Published every Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879.
Copyright, 1954, by Schnell Publishing Company, Inc.

Price Index Up Slightly

The overall OPD price index rose slightly over the past week, going up 0.18 point to stand at 107.24. Lead metal rose fractionally in the heavy chemicals section, as did Glauber's salt, salt cake and zinc. There were no reductions in this group. In the industrial organic chemicals market, a series of reductions starting with methanol and proceeding with formaldehyde and pentaerythritol and their isomers resulted in a lowering of the price index. Brazilian menthol was advanced moderately in the drugs and fine chemicals section. Other materials in this group were unchanged.

Castor beans, greases, and cottonseed meal were raised among oils, fats and waxes. Also raised in this area were corn, cottonseed, linseed and soybean oils. Reductions were limited to cocoa butter, linseed meal, lard and peanut oil. Among essential oils, aromatics and flavorings, citronella, anise and ocotea cymbarium oils were stronger. On the downward side were found oil cajeput, geranium, lemongrass, California orange and wormwood. There were no changes in aromatic chemical prices. Manila copal gum moved up in the protective coatings sections. Various grades of glue were reduced. Prices of coal tar derivatives were steady.

Myrobalans and potato starch were firmer in the textile and leather chemicals group. Prices for egg albumin, flake, powder and yolk, were lowered. The agricultural chemicals market index registered a sharp drop, led by reductions in ammonium sulfate, bone meal, dried blood, manure salts, potassium salts and tankage.

Prices Advanced

Acid, fatty acid, ½c. per lb. (76).
Castor beans, $5 per ton (76).
Celery seed, Indian, 1c. per lb. (67).
Cottonseed meal, $1 per ton (76).
Glauber's salt, 15c. per 100 lbs. (36).
Greases, ¼c. per lb. (76).
Gum, copal, Manila, DK, 2c. per lb. (70).
Lead, ¼c. per lb. (36).
Menthol, Brazilian, 25c. per lb. (55).
Myrobalans 31's, crushed, $1 per ton (53).
Oil, anise, USP, 25c. per lb. (67).
Castor, No. 1 Brazilian, ¼c. per lb. (76).
Cedarwood, 5c. per lb. (67).
Citronella, Ceylon, 5c. per lb. (67).
Java-type, 5c. per lb. (67).
Corn, crude, ¼c. per lb. (76).
ref., ¼c. per lb. (76).
Cottonseed, crude, ½c. per lb. (76).
ref., ½c. per lb. (76).
Linseed, ½c. per lb. (76).
Ocotea cymbarum, 5c. per lb. (67).
Palmarosa, 30c. per lb. (67).
Petitgrain, 15c. per lb. (67).
Soybean, crude, ⅝c. per lb. (76).
ref., ⅝c. per lb. (76).
Peanut oil, crude, scale, ¼c. per lb. (64).
Peanut meal, $2 to $4 per ton (76).
Potato starch, Maine, ½c. per lb. (53).
spot, ½c. per lb.
Salt cake, $3 per ton (36).
Soybean meal, $7 per ton (76).
Tallow, ¼c. per lb. (76).
Wax, ourciury, ref., 1c. per lb. (76).
Zinc, prime Western, ½c. per lb. (36).

Prices Reduced

Ammonium sulfate, coke-oven, $2 per ton (44).
synth., $3 per ton.
Bone meal, dom., steamed, $2 per ton (44).
Clove, Madagascar, 1c. per lb. (67).
Zanzibar, 1c. per lb. (67).
Cocoa butter, 15c. per lb. (76).
Coriander, seed, ½c. per lb. (67).
Dipentaerythritol, 2c. per lb. (47).
Dried blood, 25c. per unit of ammonia (44).
Egg albumin, flake, 5c. per lb. (53).
powd., 5c. per lb.
Yolk, 4c. per lb.
Fish meal, menhaden, $5 per ton (44).
Formaldehyde, NF, inhibited, tankcars, 0.45c. per lb. (47).
methanol-free, ½c. per lb. (47).
Ginger, African, 2c. per lb. (67).
Jamaica, #2, 2½c. per lb.
#3, 2c. per lb.
Nigerian splits, 2½c. per lb.
Glue, hide, 70-94 jellygrams, 3c. per lb.
95-121, 2½c. per lb.
122-149, 2c. per lb.
150-177, 2c. per lb.
178-206, 2c. per lb.
207-236, 2c. per lb.
237-266, 2c. per lb.
267-298, 1½c. per lb.
299-330, 1c. per lb.
Lard, ½c. per lb. (76).
Linseed meal, $3.50 per ton (76).
Manure salts, 4c. per unit ton (44).
Methanol, synth., 5c. per gal. (47).
Oil, cajeput, 5c. per lb. (67).
Coriander, 50c. per lb. (67).
Geranium, Algerian, $1 per lb. (67).
Bourbon, 25c. per lb. (67).
Lemongrass, 20c. per lb. (67).
Orange, Cal., 3c. per lb. (67).
Peanut, crude, ½c. per lb. (76).
Wormwood, 50c. per lb. (67).
Paraformaldehyde, flake, 1¼c. per lb. (47).
USP X, ½c. per lb.
Pentaerythritol, tech., 2c. per lb. (47).
Potassium muriate, 7c. per unit ton (44).
Carlsbad, 8½c. Trona (44).
Sulfate, $5.25 per ton (44).
Magnesium sulfate, $2.25 per ton (44).
Tankage, 25c. per unit of ammonia, New York, 50c., Chicago (44).
Tripentaerythritol, 2c. per lb. (47).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

June 4, 1954	May 28, 1954	June 5, 1953
107.24	107.06	106.18

Solvay Raises Caustic Soda

Solvay Process Division of Allied Chemical & Dye Corporation, New York, has announced an increase of $3 per ton, f.o.b. plant, on all grades of caustic soda. This increase will become effective July 1 carlot and l.c.l. quantities under contract. The advance became effective immediately on spot.

Tin Plant Continuance Backed, Probe Is Voted

The senate voted unanimously last week to continue the government's tin smelter at Texas City, Tex., in operation for another year and to investigate the entire question of tin in relation to national defense with a view to adopting permanent legislation on the subject next session.

It is anticipated that steps will be taken by the Administration to carry out the wishes of the senate without waiting for action of the house, although it was the intended policy of the government that the plant should be closed down at the end of this month.

At the present time, the operation of plant is under the direction of the Reconstruction Finance Corporation. In view of the fact that the FRC is now going through liquidation preparatory to going out of existence June 30, President Eisenhower is expected to issue an executive order transferring the plant to the General Services Administration along with instructions to make new tin purchases from Bolivia to keep the plant operating.

The senate's views that the plant should be maintained in operation were contained in S. Con. Res. 79 sponsored by Sen. Lyndon Johnson of Texas, minority leader of the senate, who emphasized the point that this country should not make itself vulnerable with respect to this important metal in the light of conditions in the Far East.

The concurrent resolution simply expresses the sense of congress that the tin smelter be continued in operation at least until June 30, 1955, under the provisions of existing law which permits the smelter to be operated by the government or by private operators under lease.

It also provides for a congressional investigation of the advisability of maintaining a permanent tin-smelting industry and availability of tin adequate to meet the industrial military, and naval requirements which must be completed and reported to congress by March 15, 1955. April 30, 1955, is fixed as the deadline for legislative action on the report of the investigating committee.

Allied Completes Negotiations For Acquisition of Mutual Co.

Allied Chemical & Dye Corporation, New York, has completed negotiations for the acquisition of all the outstanding stock of the Mutual Chemical Company of America, New York, a leading producer of chromium chemicals.

The transaction, according to Fred J. Emmerich, Allied president, is subject to approval by Mutual's stockholders and other customary conditions, and it is expected that the deal will be closed during the summer.

Mutual was the first American producer of chromium chemicals and its history goes back to the founding of the industry in 1845. Bichromates and chromates of soda and potash, chromic acid, chromium sulfate ("Koreon"), together with sodium sulfate are Mutual's principal products but other chromium chemicals are included in its operations. Sales are made throughout the United States and in many foreign markets. At present, Mutual is the principal American producer and its large new plant in Baltimore, Md., completed in 1951, has a high degree of mechanization and modern engineering features.

George A. Benington, president of Mutual, will continue to direct the chromium chemical operations, and no changes are contemplated in Mutual's present sales or distribution policies, according to the announcement.

Polyethylene Unit Being Built By National Petro-Chemicals

National Petro-Chemicals Corporation has begun construction on its polyethylene unit at Tuscola, Ill., and expects it to be on-stream in spring of 1955. The existing ethylene facilities are being modified to provide the extremely pure ethylene required for production of high quality polyethylene. Since the other ethylene consuming processes at Tuscola require a lower purity raw material, it will be possible to divert low pressure ethylene recycle streams from the polyethylene plant to these processes, with beneficial effects on the quality of the polymer, it was explained.

"Washington Talks It Over," the weekly column of commentary by Ralph L. Cherry formerly found here, now appears on the editorial page, which in this issue is page 34.

Airco Sales President

J. H. Humberstone has been named president of Air Reduction Sales Company, New York, a unit of Air Reduction Company, succeeding H. R. Salisbury. Mr. Humberstone joined Airco in 1948 as manager of apparatus production and later became president of Airco Equipment Manufacturing Division. In 1951 he was elected vice-president of Air Reduction Company. Last year he became president of Ohio Chemical & Surgical Equipment Company, a Madison, Wis., Airco division.

Carbide & Carbon Names Five to Vice-Presidencies

Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, last week announced the appointments of Robert N. Graham and William F. Reich as executive vice-presidents, and N. C. Babcock, E. E. Fogle and H. D. Kinsey as vice-presidents. Mr. Graham and Mr. Reich had been respectively vice-presidents in charge of production and of sales

Mr. Graham entered Carbide's employ in 1922 as a research chemist. He was transferred to the company's plant at South Charleston, W. Va., as a chemical supervisor and progressed through a number of positions, becoming assistant plant superintendent in 1930 and plant superintendent in 1935. In 1940 he was transferred to New York as assistant works manager and in 1944 became vice-president for operations.

Mr. Reich entered the employ of Union Carbide in 1919 as a sales correspondent for Linde Air Products Company. He became a sales representative for Linde in 1920. After serving as a district manager for Linde in Buffalo, N. Y., and in San Francisco, he was transferred to Carbide & Carbon to become manager of gas sales. After serving as manager of the stabilizer division and assistant general sales manager, in 1932 he became general sales manager for Carbide & Carbon. He be-

Continued on page 63

Surfactants Output, Sales Rises Noted During 1953

United States output of all surface active agents in 1953 was 922,000,000 pounds, an increase of 24 percent over the 741,000,000 pounds reported for 1952, according to the Tariff Commission. Sales in 1953 amounted to 732,000,000 pounds, valued at $145,000,000 compared with 612,000,000 pounds, valued at $120,000,000, in 1952.

Production in 1953 of cyclic surface active agents amounted to 594,000,000 pounds, an increase of 116,000,000 pounds over the output of 478,000,000 pounds reported for 1952. Sales of cyclic surface active agents in 1953 totaled 438,000,000 pounds, valued at $73,000,000, compared with sales of 381,000,000 pounds, valued at $64,000,000, in 1952.

Production in 1953 of acyclic surface active agents amounted to 327,000,000 pounds, an increase of 24 percent over the output of 264,000,000 pounds in 1952. Sales of acyclic surface active agents in 1953 totaled 293,000,000 pounds, valued at $72,000,000, compared with sales of 231,000,000 pounds, valued at $55,000,000, in 1952.

In 1953 production of sulfated and sulfonated cyclic and acyclic compounds and acyclic salts of fatty acids (mostly anion-active products) amounted to 751,000,000 pounds, or about 81 percent of the total output of surface active agents as a group. In 1953, the output of cyclic and acyclic nonsulfonated nitrogen-containing compounds (mostly cation-active products) was 58,000,000 pounds. Production in 1953 of all cyclic and acyclic esters and ethers (generally nonionic materials) was in excess of 110,000,000 pounds.

Shell Chemical Reorganizes Its Department of Marketing

A reorganization of the marketing department of Shell Chemical Corporation, New York, to unify related product groups has been announced by L. V. Steck, marketing vice-president.

G. W. Huldrum, jr., eastern division sales manager, has been appointed to the new position of general sales manager, supervising management of sales groups and chemical products managers, and reporting to the vice-president. J. M. Selden, eastern division manager, has been named assistant to the vice-president.

W. E. Keegan, assistant to the eastern division sales manager, has been appointed sales manager, reporting to Mr. Huldrum, with primary responsibility for the marketing districts including Los Angeles, San Francisco and the nine districts formerly in the eastern division. A newly-formed trade analysis department with A. Jonnard as manager will operate as part of Mr. Keegan's staff.

G. R. Monkhouse continues as senior corporation representative on the west coast as vice-president in charge of the ammonia division. Shell Chemical's eastern and western divisions as such are dis-

Continued on page 63

MCA Makes Emmerich New Chairman of Board

The Manufacturing Chemists' Association, at its eighty-second annual meeting held last week at the Greenbrier hotel, White Sulphur Springs, W. Va., elected a new chairman to its board of directors. He is Fred J. Emmerich, president of Allied Chemical & Dye Corporation, New York.

Mr. Emmerich succeeds Charles S. Munson, board chairman of Air Reduction

Fred M. Emmerich

Company, New York, who was elected to the newly created post of chairman of MCA's executive committee. William C. Foster, full-time president of the association and a director, was re-elected.

Howard S. Bunn and William H. Ward were elected MCA vice-presidents. Mr. Bunn is a vice-president of Union Carbide & Carbon Corporation, New York. Mr. Ward is a vice-president of E. I. duPont de Nemours & Co., Wilmington, Del. M. F. Crass, jr., full-time secretary-treasurer of the association, also was re-elected.

Directors elected for three-year terms expiring in 1957 are:—Leland I. Doan, president, Dow Chemical Company, Midland, Mich.; John Fennebresque, vice-president, Celanese Corporation of America, New York; Joseph Fistere, president, Mallinckrodt Chemical Works, St. Louis, Mo.; A. E. Forster, president, Hercules Powder Company, Wilmington; John L. Gillis, vice-president, Monsanto Chemical Company, St. Louis; R. K. Gottshall, president, Atlas Powder Company, Wilmington; R. C. McCurdy, president, Shell Chemical Corporation, New York, and Mr. Ward of duPont as well as Mr. Foster of MCA.

Directors elected for two-year terms expiring in 1956 are:—V. G. Bartram, presi-

—Continued on page 82

Barrett Publishes Article Detailing Firm's Growth

The Barrett Division of Allied Chemical & Dye Corporation, New York, has prepared a resume of the company's history to mark the 100th anniversary of its founding. The resume details the history of the company from the time when Samuel E. Barrett launched his own business in Chicago, specializing in coaltar pitch roofing.

The firm accomplished what was considered at that time a miracle of mass production when it turned out 3,000 pounds of tar-saturated felt for roofing each day, a figure which was shortly doubled. The Chicago fire of 1871 destroyed the Barrett plant, but a new plant was soon built and was kept operating at peak capacity in an effort to accomodate the market for roofing materials created by the post-fire rebuilding program.

Providing paved highways when the age of the automobile arrived resulted in another period of Barrett expansion. The use of creosote as a wood preservative provided Barrett with another field for expansion, and is also described in the resume. In 1920 Barrett was merged with General Chemical Company, Semet-Solvay Company, Solvay Process Company, and National Aniline & Chemical Company to form Allied Chemical & Dye Corporation.

Lilly Administrative Post Goes to William A. Rugg

William A. Rugg, who has been associated with production operations for Eli Lilly & Co., Indianapolis, Ind., has been named manager of production division administration. All pharmaceutical production division administration activities will be consolidated under Mr. Rugg's supervision.

Oil Storage Study Is Under Way

Industry and the government stand to gain a considerable amount of valuable information on the storable aspects of palm and coconut oils from the stockpiling operations in these oils by the Office of Defense Mobilization, the agency's latest report indicates.

For a number of years, it has been a divided issue in the oils industry as to whether refined oil would keep better than the crude. In connection with the storing of the oils, the government has taken steps to settle the issue.

According to the report, one tank of palm oil has been refined and arrangements have been completed for refining one tank of coconut oil. These will be stored in the refined form. As with the other stored oils in crude form, samples will be taken at regular intervals which, upon analysis, should indicate which type of oil should be stored so as to reduce rotation to a minimum.

Payment of Processing Tax

The refining operation brought up the question of the payment of the processing tax by the refiner or by the government, but this has been resolved so that payment will be deferred until the refined oil moves out of the stockpile. This decision opens up the possibility of refining stored oils as their acid content increases toward a danger point, with large savings compared to rotation, it was noted.

Some losses occur in refining, but especially in the case of coconut oil, the products obtained in refining are of sufficient value to more than pay for the refining. The combined refining and blending of stockpiled oils will make it possible, it was stated, to extend greatly the storage life for the oils.

Experiments initiated by the General Services Administration and carried out over a period of more than two years by the Eastern Regional Research Laboratory of the Department of Agriculture have indicated that the presence of free water in, or in contact with, stored oils, is the most potent factor in reducing the quality of the stored product, the report said.

Enzymatic Action

Several experiments have shown rather conclusively that, under storage conditions in the tank farms, there is no danger of oil deterioration by the action of enzymes.

Several experimnts have shown rather conclusively that, under storage conditions in the tank farms, there is no danger of oil deterioration by the action of enzymes. ODM stated also that one tank each of palm and coconut oils has been treated with an anti-oxidant intended to reduce the development of rancidity. After the passage of further time, the effect of this treatment can be determined and, if it seems worthwhile, an anti-oxidant will be added to other tanks.

CRESYLIC ACID

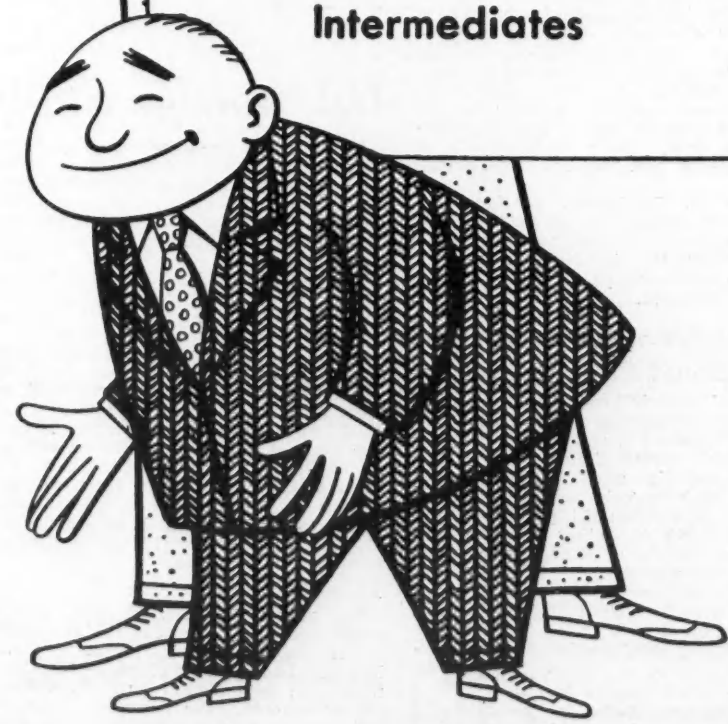
Sole U. S. Representative
for
Mirvale Chemical Company, Ltd., England
Scottish Tar Distillers, Ltd., Scotland

Spot • Futures

DRUMS • CARLOADS
TANK WAGONS • TANK CARS

important in the manufacture of–

Phenolic Resins
Tricresyl Phosphates
Surface Coatings
Flotation Agents
Disinfectants
Insecticides
Metal Cleaners
Carbon Removers
Oil Refining
Gum Inhibitors
Textile Agents
Dyes and Inks
Photographic Chemicals
Synthetic Adhesives
Intermediates



Your best source of supply!

Concord Chemical Company

MOORESTOWN, N. J.

Telephone: Moorestown 9-1100
Cable Address: "Conchem"

Association Meetings

This Week

American Plant Food Council, annual meeting, Homestead, Hot Springs, Va., June 10-13.

Society of the Plastics Industry, national exposition, technical conference, Public Auditorium, Cleveland and Statler hotels, Cleveland, Ohio, June 7-10.

American Chemical Society, Chicago section, national chemical exposition, Chicago Coliseum, October 12-15; Dallas-Fort Worth, Tex., section, southwest regional meeting, Fort Worth December 2-4.

American Council of Commercial Laboratories, annual meeting, Roosevelt hotel, New Orleans, La., November 3-6.

American Drug Manufacturers Association, annual meetifig, Lake Placid Club, Lake Placid, N. Y., June 28-30.

American Institute of Chemical Engineers, annual meeting, Statler hotel, New York, December 12-15.

American Oil Chemists' Society, fall meeting, Radisson hotel, Minneapolis, Minn., October 11-13.

American Petroleum Institute, Conrad Hilton hotel and Palmer House, Chicago, November 8-11.

American Pharmaceutical Association, Statler hotel, Boston, August 22-27.

American Society for Testing Materials, annual meeting, Sherman and Morrison hotels, Chicago, June 13-18.

American Soybean Association, annual convention, Memphis, Tenn., August 30-September 1.

Animal Health Institute, annual meeting, Edgewater Beach hotel, Chicago, June 14-16.

Association of Consulting Chemists and Chemical Engineers, annual meeting, symposium, Belmont Plaza hotel, New York, October 26.

Chemical Institute of Canada, annual conference and exhibition, Royal York hotel, Toronto, June 21-23.

Chemical Specialities Manufacturers Association, annual meeting, New Yorker hotel, New York, December 5-7.

Drug, Chemical and Allied Trades section, New York Board of Trade, spring luncheon meeting, Commodore hotel, New York, June 17; annual meeting, Pocono Manor Inn, Pocono Manor, Pa., September 23-25.

Federal Wholesale Druggists' Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 19-22.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 18-20.

International Congress of Industrial Chemistry, Brussels, Belgium, September 11-19.

Magnesium Association, annual meeting, Chase hotel, St. Louis, Mo., November 15-17.

National Chemical Exposition, Chicago Coliseum, Chicago, October 12-15.

National Fertilizer Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 14-16.

National Foreign Trade Council, annual convention, Waldorf-Astoria hotel, New York, November 15-17.

National Paint, Varnish and Lacquer Association, annual meeting, Palmer House, Chicago, November 15-17.

Packaging Machinery Manufacturers' Institute, Grove Park Inn, Asheville, N. C., September 23-26.

Parenteral Drug Association, annual meeting, Barbizon-Plaza hotel, New York, October 27-29.

Plant Maintenance Show, Pan Pacific Auditorium, Los Angeles, July 13-15.

Proprietary Association of Canada, annual meeting, Thousand Island Club, Alexander Bay, N. Y., June 14-16.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, September 8.

Toilet Goods Manufacturers Association of Canada, annual meeting, Whiteface Inn, Lake Placid, N. Y., June 14-16.

United States Trade-Mark Association, annual meeting, Pierre hotel, N. Y., June 23.

World Congress on Surface Active Agents, Sorbonne, Paris, France, August 30-September 3.

ACS Southwest Session In Fort Worth Dec. 2-4

The Dallas-Fort Worth, Tex., section of the American Chemical Society will be host to members during the tenth southwest regional meeting, to be held in Fort Worth, December 2, through 4.

Papers are invited for presentation at the general sessions, and those in the several categories are sought. Papers should be submitted to the following chairmen, according to subject matter:—Analytical Chemistry, C. T. Kenner, Southern Methodist University, Dallas; biochemistry, H. C. Tidwell, Southwestern Medical School, Dallas; chemical education, Ogden Baine, Southern Methodist University; industrial and agricultural chemistry, T. S. McDonald, Procter & Gamble Company, Dallas; organic chemistry, J. J. Spurlock, North Texas State College, Denton; petroleum chemistry, H. B. Hix, Magnolia Petroleum Company, Field Research Laboratories, Dallas, and physical and inorganic chemistry, J. J. Banewicz, Southern Methodist University. Information pertaining to title, author's name, and subject matter must be received not later than September 1.

Oils, Fats Output, Use: April

Statistics on production and consumption of oils, and fats, including raw materials and primary products have been compiled by the Bureau of Census; Department of Commerce, for the month of April. The data are as follows:—

Primary Products

	Production (Pounds)	Consumption (Pounds)	Stocks April 30 (Pounds)
Animal foots from refining, 100% basis	1,655,000	2,177,000	3,939,000
Babassu oil, crude	.....	.....	[1] .....
refined	.....	.....	.....
Castor oil, No. 1	6,220,000	5,402,000	[2]22,561,000
No. 3, crude	1,769,000	2,616,000	[2]9,282,000
Chinawood or tung oil	2,547,000	4,035,000	52,384,000
Coconut oil, crude	35,863,000	50,243,000	[2]45,345,000
refined	32,939,000	30,309,000	8,884,000
Cod and codliver oil	12,000	1,643,000	3,807,000
Corn oil, crude	21,931,000	23,632,000	16,109,000
refined	19,233,000	18,731,000	4,319,000
Cottonseed oil, crude	161,955,000	191,274,000	129,705,000
refined	178,107,000	176,239,000	[3]1,140,315,000
Fish and marine mammal foots, 100% basis	[4]	554,000	940,000
Fish oil, refined	[4]	915,000	2,770,000
Fish oil, not specified, except liver oil	371,000	741,000	[4]205,000
Fishliver oil, not specified	33,000	175,000	603,000
Grease, other than wool	47,227,000	23,421,000	65,207,000
Lard, rendered[5]	153,000,000	[6]8,224,000	49,125,000
refined[7]	105,000,000	4,021,000	24,901,000
Linseed oil, raw	38,784,000	37,349,000	438,265,000
refined	15,009,000	18,013,000	35,688,000
Marine mammal oil, not specified	.....	[7]	[4] .....
Menhaden oil	1,640,000	5,344,000	13,655,000
Neatsfoot oil	165,000	301,000	943,000
Oiticica oil	.....	723,000	2,616,000
Olive oil, edible	[1]	443,000	3,161,000
inedible	.....	21,000	51,000
Sulfur foots	.....	197,000	2,573,000
Palm oil, crude	.....	2,978,000	[3]12,909,000
refined	[1]	235,000	513,000
Palm kernel oil, crude	.....	4,209,000	5,499,000
refined	3,613,000	2,722,000	1,341,000
Peanut oil, crude[8]	8,895,000	4,819,000	9,923,000
refined	4,600,000	3,137,000	4,512,000
Perilla oil	.....	.....	.....
Rapeseed oil, crude	.....	38,000	37,000
refined	.....	345,000	2,175,000
Sardine (Pilchard) and herring oil	10,000	2,078,000	4,032,000
Sesame oil, crude	.....	[7]	[7] .....
refined	.....	.....	224,000
Soybean oil, crude	194,526,000	191,443,000	142,208,000
refined	180,911,000	187,039,000	98,418,000
Sperm oil	.....	3,287,000	[3]10,951,000
Tallow, edible	16,046,000	12,122,000	6,671,000
refined	1,488,000	2,940,000	1,241,000
inedible	140,958,000	93,239,000	205,945,000
refined	19,286,000	17,493,000	12,877,000
Vegetable oil, not specified, crude	2,187,000	4,373,000	19,011,000
refined	3,700,000	1,736,000	3,239,000
Vegetable foots, 100% basis	21,516,000	13,306,000	47,678,000
Whale oil	.....	.....	[9] .....
Wool grease	454,000	[9]	[10]1,164,000

Primary Products Except Oil

	Production	Shipments and transfer	Stocks April 30
Cottonseed cake and meal (tons)	219,351	209,425	[11]177,739
hulls (tons)	106,964	89,329	112,223
linters (running bales)	[12]149,749	150,138	[12]22,187
hull fiber (lbs.)	394,000	325,000	983,000
motes and grabbots	2,440,000	3,474,000	7,717,000
Soybean cake and meal (tons)	420,667	409,163	182,233
Leecithin (lbs.)	2,172,000	1,810,000	2,862,000
Edible soy flour, full fat (tons)	[11]	[11]	313
other (tons)	4,417	4,430	898
industrial soy flour (tons)	3,351	[11]	1,197
Other cake and meal—			
Castor bean (tons)	4,460	6,244	3,561
Copra (tons)	9,561	8,422	2,288
Corn germ (tons)	14,290	14,446	1,196
Flaxseed (tons)	35,286	40,320	8,489
Olive (tons)	.....	[11]	[11] .....
Peanuts[13] (tons)	6,816	6,905	2,164
Tung nut (tons)	941	1,194	591
Other (tons)	2,918	1,445	5,153

Secondary Products

	Production (Pounds)	Consumption (Pounds)	Stocks April 30 (Pounds)
Castor oil, chemically dehydrated	1,564,000	1,495,000	4,593,000
Deodorized oil[14]	27,483,000	10,029,000	5,754,000
Fatty acid stock, including spent and salvaged oil and fats, palm oil, refuse, etc. (100% fatty acid basis)	895,000	2,242,000	2,922,000
Fish and marine mammal fatty acids[17]	[4]	827,000	2,984,000
Glycerine, chemically pure (100%) basis[18]	13,113,000	9,229,000	29,259,000
crude (100%)	18,221,000	18,909,000	16,419,000
high gravity and yellow distilled (100% basis)	5,013,000	6,340,000	18,323,000
Grease oil and lard oil	4,639,000	2,165,000	6,991,000
Hydrogenated oil and fats, edible—			
Cottonseed	77,694,000	69,360,000	24,777,000
Soybean	91,235,000	90,476,000	26,271,000
Other	7,573,000	4,520,000	2,977,000
Inedible—			
Animal	2,666,000	3,240,000	3,834,000
Vegetable	1,525,000	1,729,000	1,557,000
Fish	[4]	3,155,000	1,281,000
Oleomargarine	[19]118,586,000	[9]	21,219,000
Oleo oil	4,013,0000	672,000	1,688,000
Shortening	180,323,000	576,000	83,881,000
Stearin, animal, edible	1,948,000	1,532,000	1,116,000
inedible	2,989,000	1,220,000	2,891,000
vegetable oil winter	13,787,000	15,638,000	14,616,000
Tall oil, crude	29,948,000	22,773,000	65,810,000
refined, including distilled and fractionated tall oil	11,124,000	5,917,000	14,806,000
Tallow oil	587,000	917,000	2,409,000
Winterized oil	64,415,000	38,723,000	30,254,000

Raw Materials at Mills

	Receipts (Tons)	Crushings (Tons)	Stocks April 30 (Tons)
Castor beans	320	8,403	4,556
Copra	23,092	27,480	8,181
Corn germs	27,604	27,319	1,425
Cottonseed	28,265	469,333	890,521
Flaxseed	27,741	54,725	38,050
Olives	[14]	[14]	[14] .....
Peanuts[15]	12,234	10,959	5,240
Soybeans	246,839	529,473	1,286,267
Tung nuts	4,187	6,586	530
Other	4,968	4,048	2,720

[1] Included in "Other vegetable oils" to avoid disclosure of figures for individual companies.

[2] Data for stocks of crude palm oil, crude coconut oil, castor oil No. 1 and No. 3, and sperm oil are on a commercial basis and do not include figures for stock piles of strategic oils.

[3] Commodity Credit Corporation, U. S. Department of Agriculture reported ownership of 998,891,000 pounds of refined cottonseed oil as of April 30, 1954.

[4] Not shown to avoid disclosure of figures for individual companies.

[5] Data on production collected by U. S. Department of Agriculture. Refined lard production data represent Federally inspected lard.

[6] Excludes quantities used in refining.

[7] Included in "Sperm oil".

[8] Data on production and stocks held at crude oil mill locations collected by Agricultural Marketing Service, U. S. Department of Agriculture.

[9] Data not available.

[10] Held by wool scourers.

[11] Commodity Credit Corporation, U. S. Department of Agriculture reported ownership of 63,040 tons of cottonseed cake and meal as of April 30, 1954. Of this quantity 1,614 tons were reported held at oil mills.

[12] Includes 36,256 bales first cut; 107,212 bales second cut; and 6,281 bales mill run; average gross bale weight:—Total, 610.0; first cut, 598.7; second cut, 616.0; and mill run, 572.8 pounds.

[13] Includes 121,990 bales first cut; 92,346 bales second cut; and 11,851 bales mill run.

[14] Included in "Other" to avoid disclosure of figures for individual companies.

[15] Data collected by Agricultural Marketing Service, U. S. Department of Agriculture.

[16] Winterized-deodorized oil, hydrogenated-deodorized oil, and cooking and salad oils not included.

[17] Data for fatty acids do not include estimates for companies reporting information on an annual basis.

[18] Includes data for synthetic glycerine.

[19] The total for April, 1954, was packaged as follows:—One-pound units, 110,263,000 pounds; bulk, pats or chips, 1,586,000, and bulk other 6,725,000 pounds. The sum of these items may not agree with the production total shown above because some margarine is not packaged during the same month in which it is produced.

Drug Law Group Tells August Meeting Plans

The Food, Drug and Cosmetic law section of the American Bar Association has announced plans for its annual meeting to be held in Chicago on August 17. Charles Wesley Dunn, chairman of the section, and James M. Best, secretary, will make introductory statements opening the meeting at 10 a.m. Charles W. Crawford, commissioner of food and drugs in the Department of Health, Education and Welfare, will deliver an address on "Progress of 1938 Federal Food, Drug and Cosmetic Act." A price restitution enforcement of this act will be discussed by William W. Goodrich, assistant general counsel for HEW.

An address on the progress of the 1953 Canadian food and drugs act will be delivered by C. A. Morrell, director of food and drug divisions in the Canadian Department of National Health and Welfare. Charles A. Adams, formerly director of the food standards and labeling division in the United Kingdom Ministry of Food, will offer, in absentia, a report on the 1954 revision of the United Kingdom food and drugs act.

Papers on the 1938 federal food, drug and cosmetic act to be presented at the morning session are:—"Some Observations on its Drug Regulation" by Walton M. Wheeler, general counsel for Eli Lilly & Co., and "A Further Discussion of its Antibiotic Law," by Paul Gerden, general counsel of Abbott Laboratories.

The afternoon session, at 2 p.m., will open with a discussion of the food chemical additive amendment to the 1938 food, drug and cosmetic act by:—Roy C. Newton, vice-president of Swift & Co.; Erwin P. Snyder, general counsel for Kraft Foods Company; Fredus N. Peters, vice-president of Quaker Oats Company, and Paul Logue, manager of market development in the inorganic chemicals division of Monsanto Chemical Company.

Papers to be presented at the afternoon session are:—"Product Liability Claims in the Meat Packing Industry," by William N. Strack, general counsel for Swift & Co., and "Latin-American Food and Drug Law," by Julius G. Zimmerman, attorney for Coco-Cola Export Corporation.

Trademark Ass'n to Survey Business Problems at Parley

Trademark problems which are confronting American businessmen, as the result of the rapid introduction of new products and the search for new markets, will be reviewed at the seventy-sixth annual meeting of The United States Trade-Mark Association in the Pierre hotel, New York, June 23.

Mrs. Daphne R. Leeds, assistant United States Commissioner of Patents, will address a luncheon meeting of the association on "The New Look in Trademarks." Her talk will be followed by an afternoon session at which William G. Werner, manager of public relations for Procter & Gamble, Cincinnati, Ohio; Earl Thomson, Boston attorney, and Dr. Lyndon O. Brown, vice-president of Dancer-Fitzgerald-Sample, Inc., New York advertising agency, will speak on the public relations, legal and advertising aspects of trademarks in the present economy.

James F. Hoge, of Rogers, Hoge & Hills, association counsel and counsel to the Proprietary Association of America, will preside. Laurence C. Ehrhardt, vice-president in charge of the legal department of McKesson & Robbins, Inc., New York, chairman of arrangements, said the afternoon meeting will be open to nonmembers of the association and will be of special interest to executives in advertising, marketing, sales promotion and public relations.

As the result of an increasing number of registration applications, estimated to be running at the rate of 18,000 annually, the United States Trade-Mark Association said that there is need for a better understanding of government policy on trademarks. The association pointed out that some business concerns are loath to ask trademark protection for their products in fear of legal complications and time-wasting government red tape, yet it was emphasized that in the seventy-two years since national trademark legislation was first enacted, the protection of the federal trademark laws has been offered registrants of more than 830,000 trade-marks.

SCI Annual Conference Set

The Society of Chemical Industry will hold its seventy-third annual meeting July 12 to 17 at the University of Liverpool, Liverpool, England.

TONNAGE MOLYBDENUM CHEMICALS

To Precise Specifications

AMMONIUM MOLYBDATE, REAGENT

$(NH_4)_6Mo_7O_{24}.4H_2O$ F.W. 1235.95

Meets A.C.S. Specifications

Assay (as MoO_3)	81.0-83.0%
Insoluble Matter	0.005 % Max.
Chloride (Cl)	0.001 % Max.
Nitrate (NO_3)	0.003 % Max.
Phosphate (PO_4)	0.0005 % Max.
Sulfate (SO_4)	0.005 % Max.
Heavy Metals (as Pb)	0.001 % Max.
Magnesium and Allied Cations	0.020 % Max.
pH of 5% Solution at 25°C	5.0-5.5

Particle Size (Mesh): at least 95% thru U.S. No. 20 Sieve
at least 90% on U.S. No. 140 Sieve

AMMONIUM MOLYBDATE, C.P.

$(NH_4)_6Mo_7O_{24}.4H_2O$ F.W. 1235.95

Assay (as MoO_3)	81.0-83.0%
Insoluble Matter	0.010 % Max.
Chloride (Cl)	0.005 % Max.
Nitrate (NO_3)	0.010 % Max.
Phosphate (PO_4)	0.001 % Max.
Sulfate (SO_4)	0.010 % Max.
Heavy Metals (as Pb)	0.003 % Max.
pH of 5% Solution at 25°C	5.0-5.5

Particle Size (Mesh): at least 95% thru U.S. No. 20 Sieve
at least 90% on U.S. No. 140 Sieve

SODIUM MOLYBDATE, TECHNICAL

Na_2MoO_4 F.W. 205.94

Assay (Na_2MoO_4)	98.0 % Min.
Insoluble Matter	0.050% Max.
Chloride (Cl)	0.20 % Max.
Sulfate (SO_4)	0.20 % Max.
pH of 5% Solution at 25°C	9.0-10.0

MOLYBDIC ACID, REAGENT

Meets A.C.S. Specifications

Assay (as MoO_3)	85.0 % Min.
Insoluble in NH_4OH	0.010 % Max.
Chloride (Cl)	0.002 % Max.
Phosphate (PO_4)	0.0005% Max.
Sulfate (SO_4)	0.020 % Max.
Heavy Metals (as Pb)	0.003 % Max.

Particle Size (Mesh): at least 99% thru U.S. No. 40 Sieve
at least 10% thru U.S. No. 325 Sieve

MOLYBDENUM TRIOXIDE, REAGENT

MoO_3 F.W. 143.95

Meets A.C.S. Specifications

Assay (MoO_3)	99.5 % Min.
Insoluble in NH_4OH	0.010 % Max.
Chloride (Cl)	0.002 % Max.
Nitrate (NO_3)	0.003 % Max.
Phosphate (PO_4)	0.0005% Max.
Sulfate (SO_4)	0.020 % Max.
Ammonium (NH_4)	0.001 % Max.
Heavy Metals (as Pb)	0.005 % Max.

Particle Size (Mesh): at least 99% thru U.S. No. 40 Sieve
at least 10% thru U.S. No. 325 Sieve

USES

Molybdenum compounds are widely used in the production of catalysts, phosphomolybdic-phosphotungstic lake colors, molybdate chrome orange pigments, protective and decorative metal finishes, soil additives, and pure molybdenum metal for radio tubes, X-ray tubes, and incandescent lamps. They have specific uses in pharmaceutical, leather and textile manufacture.

All Baker Molybdenum Chemicals are produced under processing conditions that insure physical and chemical uniformity.

Technical product data, samples, and prices will gladly be forwarded upon request.

Address your letter to J. T. Baker Chemical Co., *Executive Offices,* Phillipsburg, New Jersey.

Baker CHEMICAL

Baker Chemicals

REAGENT • FINE • INDUSTRIAL

Current Market Quotations

Chemicals and Related Materials

All matters under this heading fully protected by copyright.

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, June 4 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

Index to Reports on Price Changes and Other Market Aspects

Acids 36
Agricultural Chemicals 44
Aromatic Chemicals 67
Botanical Drugs 55
Coal Chemicals 50
Drugs 55
Essential Oils 67
Fats and Greases 76
Fertilizer Materials 44
Fine Chemicals 55
Heavy Chemicals 36
Industrial Organic Chemicals 47
Lacquer Materials 70
Leather Chemicals 53
Naval Stores 70
Oil Cake and Meal 76
Oils 76
Paint Materials 70
Pesticides 44
Petrochemicals 47
Petroleum Derivatives 64
Protective Coatings Materials 70
Spices 67
Textile Chemicals 53
Waxes 76

A

Acacia (see Gum arabic).

Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde, 99% dms., c.l., frt. equald lb. .1250- .1435
l.c.l., frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300

Acetaldol (see Aldol)

Acetanilide tech., bbls., c.l., dlvd lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86

Acetic anhydride, dms., c.l., dlvd, E. lb. .15½- —
l.c.l., dlvd, E lb. .17 - —
tanks, dlvd, E lb. .14 - —

Acetoacetanilide, fib. dms., c.l., dlvd lb. .75 - —
l.c.l., dlvd. lb. .76 - —

Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd. lb. 1.28 - —

Acetoacet-o-toluidide, fib., dms., c.l. dlvd lb. .78 - —
l.c.l. dlvd lb. .79 - —

Acetone, CP, dms., c.l., dlvd. lb. .10 - —
l.c.l., dlvd. lb. .11 - —
tanks, dlvd. lb. .08 - —

Methyl (see M)

Acetonitrile dms. c.l. works lb. .45 - —
l.c.l works lb. .47 - —

Acetophenetidine, USP, bbls., works, frt. equald lb. 1.15 - 1.17

Acetophenone cns., dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —

p-Acetylaminobenzaldehyde thiosemicarbazone, dms, frt. adjusted, lb. 17.50 -21.00

N-Acetyl-p-aminophenol, dms., frt., adjusted lb. 1.75 - 1.85

Acetyltributyl citrate, tech. dms., c.l lb. .33½- —
l.c.l lb. .38½- —
tanks lb. .33 - —

Acetyltriethyl citrate, tech., dms., c.l lb. .37½- —
l.c.l lb. .38½- —
tanks lb. .36 - —

Acid, abietic, com'l., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490- —
cryst., dms, c.l., works lb. .06½- —
l.c.l., works lb. .07 - .07½

Acetic, com'l or redist., 28% bbls. 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80%, bbls 100 lbs. 10.45 - —
glacial synthetic, CP, dms, dlvd 100 lbs. 15.00 -16.00
tech., dms., c.l., dlvd 100 lbs. 10.50 -12.00
l.c.l., same basis 100 lbs. 11.00 -13.00
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 24.00 -25.00

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP special, bbls., makers, primary distrib., point of ship't, 1,000-lb. lots lb. .60 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh), bbls., same basis. lb. .55 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .37 - .37½

Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75

p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works, same basis lb. 2.55 - 2.60

p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50

Anthranilic, bbls., frt. equald lb. 1.21 - —

Arsenous, tech., (see Arsenic, white).
USP (see Arsenic trioxide).

Ascorbic USP dms., 25-50 kilo lots, kilo. 21.00 - —
10-kilo lots kilo. 21.35 - —
5-kilo lots kilo. 21.75 - —
bots., 1-kilo lots kilo. 22.00 - —
500-gram lots kilo. 22.50 - —

Battery, cbys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45

Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —

Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).

Betaoxynaphthoic (see Acid, b-Oxynaphthoic).

Boric, tech. 99½%, cryst., bgs., c.l., works ton. 124.25 - —
ton lots, ex whse., N. Y. or Chi ton. 172.00 - —
smaller lots, same basis, ton. 177.00 - —
bbls., c.l., works ton. 148.75 - —
ton lots, ex whse., N. Y. or Chi ton. 196.50 - —
smaller lots, same basis, ton. 201.50 - —
gran., bgs., c.l., works ton. 99.25 - —
ton lots, ex whse., N. Y. or Chi ton. 147.00 - —
smaller lots, same basis, ton. 152.00 - —
bbls., c.l., works ton. 123.75 - —
ton lots, ex whse., N. Y. or Chi ton. 171.50 - —
smaller lots, same basis, ton. 176.50 - —
bulk, c.l., works ton. 94.25 - —

Acid, boric, tech., powd., bgs., c.l., works ton. 104.25 - —
ton lots, ex whse., N. Y or Chi ton. 152.00 - —
smaller lots, same basis, ton. 157.00 - —
bbls., c.l., works ton. 128.75 - —
ton lots, ex whse., N. Y or Chi ton. 176.50 - —
smaller lots, same basis, ton. 181.50 - —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Broenners, bbls lb. 1.76 - —

Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. .32¼- —

Cacodylic, bots lb 10.50 -13.00

Camphoric, natural, dms lb. 4.00 4.75
synth dms lb 4.00 4.75

Capric, dms lb. .26¼- .28

Caprylic, dms lb. .29¾- .31½

Cassella, dms., frt. alld lb. 1.44 - 1.75

Castor oil, split, dms lb. .35½- .36

Chicago, bbls., frt alld lb. 3.21 - —

Chloroacetic, mono-, purified, flake, 99%, dms. lb. .23½- .25½
tech., flake, 96-97%, frt, equald, dms. lb. .20 - .21

o-Chlorobenzoic, fib. dms., works lb. 1.13 - —

p-Chlorobenzoic, fib. dms., works lb. 1.59 - 1.62

Chlorosulfonic dms., c.l., frt. equald lb. .0465- —
l.c.l., frt, equald lb. .0515- —
tanks, frt. equald lb. .0415- —

Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.

Cholic, 25-100 lb. bots., fiber dms. lb. 6.25 - 6.50

Chromic 99¾%, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - .29

NF (see Chromium trioxide)

Cinnamic, ref'd, bots lb. 2.50 - 3.50

Citric, USP, anhyd., gran., fine gran., dms., c.l. lb. .28¾- —
10,000-lb. lots, 1 ship't, lb. .29¼- —
smaller lots lb. .29¾- .31¼

hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots, 1 ship't, lb. .27½- —
smaller lots lb. .28 - .29½

Powdered citric acid ½c. higher.

Acid, Cleve's, mixed, bbls lb. .79 - —

Coconut oil, dist., dms lb. .25¾- .27½
tankcars lb. .24 - —
double dist., dms lb. .26¼- .28
tankcars lb. .24½- .24¾

Corn oil, dist., dms lb. .13¾- .15
tanks lb. .12 - .13

Cottonseed oil, dist., dms lb. .11¼- .13
tanks lb. .09½- —
double dist., dms lb. .11¾- .13½
tanks lb. .10 - .10¼

2,3-Cresotic, dms., ton lots, works, lb. .66 - —
smaller lots lb. 1.82 - 2.00

Cresylic, coaltar, dom., 50% 207° C or above, ret dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207° C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms., c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
imp. 75% at 215° C. or over, dms., ex whse gal. .75 - .90
petroleum, dom., 195° to 213° C., non-ret dms., c.l. San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C. to 222° C., tanks, Wilmington, Cal gal. .58 - .63
211° C to 236° C. non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C. tanks, Wilmington Cal gal. .50 - .53
245° C to 298° C, tanks, Wilmington Cal gal. .46 - —

Crotonic, fib. dms., c.l., 200 lbs. or more, works lb. .44 - —

Cyanoacetic, tech., bbls lb. .90 - 1.25

Dehydrocholic, injection, fib dms., 10 to 100-lb. lots lb. .No prices.
oral, fib., dms., 10 to 100-lb lots lb. 11.75 -12.00

Desoxycholic, fib dms 10 to 100 lb. lots lb. 15.00 -15.25

Dichlorophenoxyacetic (see under 'D' 2,4-D)

Diethylbarbituric (see Barbital)

Diglycolic, bgs., works lb. .14 - —

Acacia—Acid, Naphthylamine, (2)-1-Sulfonic

Acid, 2-Ethyl hexoic, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35½- —
tanks, works lb. .33½- —

F, crude, paste, bbls., works lb. 2.10 - —

Folic, bots, fib. cns. kilo-lots or more gram. 1.60 - —

Formic, 85%, cbys., c.l., works lb. .1570- —
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l., works lb. .1675- .1775

Fumaric, tech., bgs., dms lb. .27 - .28

Gallic, NF VII, bbls., 1,000-lb. lots, lb. 1.80 - —
smaller lots lb. 1.82 - 2.00
technical, bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb. 1.69 - 1.78

Gamma dry, ground, bbls., frt. alld lb. 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —

Gentisic, 100-lb fib dms lb 8.50 - —

Gluconic, tech., 50% bots lb. .23 - .33
cbys. lb. .19 - —
dms. lb. .15½- —

l-Glutamic, 99½% fib. dms., 100 lb lots, works lb 2.45 2.53
25-lb. lots, works lb. 2.60 - 2.68

Glycerophosphoric, 35%, dms., works lb. 2.25 2.33

Glycolic (see Acid hydroxyacetic).

H, dry, bbls., works, 100% basis, lb. .82 - —
paste, bbls., works, 100% basis, lb. .80 - —

Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —

Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .37 - .43

Hydrochloric, anhydrous (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.03
tanks, works, frt. equald ton. 28.00 - —
20° cbys., c.l., works 100 lbs. 2.60 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton. 30.00 - —
22° cbys. c.l., works 100 lbs. 2.15 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton. 35.00 - —
CP, USP, consumers, cbys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5 pint bottles extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .19¼- —

Acid, hydrochloric, CP, USP, prices to dealers 1½c. per lb less.

Hydrocyanic, cyls., frt. alld lb. .75 - 95
dilute NF 2% 5-lb pots lb .40 —

Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½- .22½

Hydrofluosilicic, basis 30%, dms., works lb. .06 - —

Hydroxyacetic, tech. 70%, bbls., non-return., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —

Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb. 88 - —

Isonicotinic, 100 lb fib dms, works lb. 5.00 - —

Hydrazide (see Isoniazid).

J, bbls., works, 100% basis lb. 2.50 - 2.85

Koch, bbls., frt. alld lb. .64 - .70

L, bbls., works lb. 1.25 - —

Lactic, edible, 50%, bbls., 20 or more lb. .17 - .20
smaller lots lb. .1750- .2100
80%, bbls., 5 or more lb. .30 - .3640
smaller lots lb. .305 - .3699
NF, 85%, cbys lb. .65 - .68
plastic grade, 50%, bbls., 20 or more, works lb. .2175- —
1 to 19 lb. .2225- .2278
80%, bbls., 5 or more lb. .3818- —

tech., 22%, bbls., c.l., works, 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.15 -12.50

Laurent's, bbls lb. .60 - —

Lauric, 90%, dms lb. .36½- .38

Linseed oil, dist., dms. lb. .2075- —
water white, dms. lb. .2375- —

Maleic, cryst., powd., dms lb. .37 - .38

Malic, tech., dms lb. .50 - —

Mandelic, NF, dms., 1,000-lb. lots, lb. 2.35 - —
smaller lots lb. 2.40 - 2.50

Metanilic, dms., works lb. .57 - .75

Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —

Molybdic, 85-92%, dms. works lb 1.27 —

Monochloroacetic, purif. (see Acid, Chloroacetic mono-).

Muriatic (see Acid, hydrochloric)

Myristic, dms lb. .28 - .29½

Naphthenic, 220-230 acidity, dms., works lb. .14 - —
tanks, works lb. .12 - —

Naphthol (1)-4-sulfonic (see Acid Nevile and Winthers)

Naphthol(1)-5-sulfonic (see Acid, L).

Naphthol(1)-5-sulfonic,8-amino (see Acid, S).

Naphthol(1)-3,6-disulfonic,8-amino (see Acid H).

Naphthol(2)-6,8-disulfonic (see Acid, Gamma)

(5)-7-Sulfonic,2-amino (see Acid, J).

Naphtholsulfonic, mixed (see Acid, Cleve's, mixed).

Naphthylamine(1)-5-sulfonic (see Acid, Laurent's).
(2)-6-sulfonic (see Acid, Broenner's).
(2)-7-sulfonic (see Acid, F).
(2)-1-sulfonic (see Acid, Tobias).

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dist.	distilled	NNR	New and Nonofficial Remedies
alld.	allowed	distr.	distributor	No.	number
amorph.	amorphous	djns.	demijohns	nom.	nominal
AMP	American melting point	dlvd.	delivered	o-	ortho
anhyd.	anhydrous	dms.	drums	ord.	ordinary
a.p.a.	available phosphoric acid	dom.	domestic	oz.	ounce
artif.	artificial	E.	east	p-	para
ASTM	American Society for Testing Materials	e.p.	end point	Pac.	Pacific
		equald.	equalized	pf.	proof
Be.	Baume	exp.	expressed	phos.	phosphate
bbls.	barrels	ferment.	fahrenheit	photo.	photographic
bgs.	bags	f.f.a.	fermentation	pkgs.	packages
bls.	bales	f.f.c.	free fatty acid	powd.	powdered
bots.	bottles	fib.	free from chlorine	precip.	precipitated
b.p.	boiling point	f.o.b.	fiber	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free on board	pt.	point
b.r.	boiling range	frt.	free of prussic acid	pulv.	pulverized
bxs.	boxes	gal.	freight	purif.	purified
C.	centigrade	gran.	gallon	redist.	redistilled
cbys.	carboys	grd.	granular	refd.	refined
CD	completely denatured	i.&a.	ground	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	iron and aluminum	reg.	regular
cks.	casks	imp.	initial boiling point	resub.	resublimed
c.l.	carlots	incl.	imported	ret.	returnable
cns.	cans	indust.	included	SD	specially denatured
coml.	commercial	kgs.	industrial	s.d.	single distilled
conc.	concentrated	l-	kegs	S. E.	southeast
CP	chemically pure	lacq.	laevo	sec.	secondary
cps.	centipoises	lb.	lacquer	secs.	seconds
cryst.	crystal	l.c.l.	pound	s.g.	specific gravity
cs.	cases	liq.	less than carlots	shipt.	shipment
ctns.	cartons	m-	liquid	soln.	solution
cyls.	cylinders	m.a.p.	meta	s.u.	standard unit
d-	dextro	min.	mixed aniline point	syn.	synthetic
dbl.	double	m.p.	minimum	tanks.	railroad tankcars
denat.	denatured	N-	melting point	tech.	technical
dest-dist.	destructive-distilled	n-	nitrogen	tert-	tertiary
dl-	dextro-laevo	nat.	normal	USP	U. S. Pharmacopoeia
		neut.	natural	vis.	viscosity
		NF	neutral	VM&P	varnish makers & painters
			National Formulary	W.	west
				whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nevile and Winther's — Alcohol, Ethyl

Acid, Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., frt. adjusted kilo 9.00 - 9.30
Amide, USP, (see Nicotinamide).
Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.25 - —
l.c.l., works, E 100 lbs. 5.55 - 6.35
38° Be cbys., c.l., works, E. 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.80
40° Be, cbys., c.l., works, E. 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
42° Be cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.40 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.40 - —
CP NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, single distilled, dms lb. .16 - .17¾
tanks lb. .14¼- —
double dist. (white), dms lb. .18½- .20¼
tanks lb. .16¾- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic)
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, bbls., works lb. 1.14 - —
Palm oil, double dist., dms lb. .13¼- .15
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Acid, para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys. c.l., works 100 lbs. 7.30 - —
l.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works lb. .08¼- —
l.c.l., works lb. .09 - .09½
Picric, NF, bbls lb. .55 - —
dms, small lb. .81 - .87
tech., bbls lb. .32 - .33
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol)
tech., bbls lb 2.76 - 2.90
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms lb. .37 - —
sublimed, tech., fib. dms., c.l. lb. .39 - —
l.c.l. lb. .46 - —
dyestuffs grade, fib. dms. lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powder, fib. dms lb. .53 - —
Sebacic, purified, dms., c.l., works. lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, double dist., dms lb. .16¾- .18
tanks lb. .15 - —
single dist., dms lb. .16 - .17¾
tanks lb. .14¼- —
Acid, stearic, double pressed, bgs. lb. .14¼- .16¾
single pressed, bgs lb. .13¾- .16¼
triple-pressed, bgs lb. .16½- .19
Succinic, purified, cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton. 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton. 22.35 - —
98%, tanks, works ton. 23.50 - —
99-100%, tanks, works ton. 23.95 - —
CP, NF, consumers cbys. extra, c.l., works frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. botz., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
oleum, 20%, tanks, works ton. 25.00 - —
40% tanks, works ton. 29.00 - —
65% tanks, works ton. 39.50 - —
Tallow, dist., dms lb. .13¼- .15
hydrogenated, dms lb. .14¼- .16
Tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .95 - —
Tartaric, USP, dom., 230 or 250-lb., dms., c.l. lb. .37 - —
10,000-lb. lots, 1 ship't. lb. .37½- —
smaller lots lb. .38 - —
100-lb. dms lb. .39 - —
small dms lb. .41 - .47
Imported, bgs lb. .34 - —
Acid, thioglycolic, refined, cbys., 100% basis lb. 1.80 - 1.86
Tobias, bbls., frt. alld lb. .74 - —
p-Toluenesulfonic, dms., c.l., works. lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Undecylenic, dms. lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Aconitine, cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .33 - —
l.c.l., works lb. .34 - —
tanks, works lb. .31 - —
ACTH, bots gram. 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH.
Agar, USP, Kobe No. 1, strip, bls. lb. 4.00 - —
powdered, 30 mesh, fib., dms lb. 4.50 - —
dl-Alanine, dms., works lb. 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., t.c.l. lb. .65 - .90
Egg, edible, flake, bbls lb. 1.50 - 1.53
powder, bbls lb. 1.54 - 1.56
tech., cryst., bbls lb. .85 - .87
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
fermentation, ref'd, 128-132°C., dms., l.c.l., dlvd lb. .34 - —
ACS grade, dms., c.l., dlvd lb. .36 - —
mixed, primary, dms., c.l., works lb. .19¼- —
l.c.l., works lb. .20¼- —
tanks, works lb. .17¼- —
1-pentanol (synthetic normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
n-synthetic, dms., c.l., frt. alld., lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
sec-synthetic, dms., c.l., frt. alld., works lb. .19 - —
l.c.l., works lb. .20 - —
tanks, works lb. .16 - —
teri-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl fermentation, dms., c.l., frt. alld. lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .16 - —
l.c.l. works lb. .18½- —
tanks, works lb. .16½- —
95%, dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, bots lb. 1.75 - 2.00
Industrial (see 1-Decanol).
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis. gal. .59½- .65⅛
tanks, dlvd., same basis gal. .41½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66⅛
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66⅛
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65⅛
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
Diacetone, acetone-free, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal. 20.48 - —
l.c.l., same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies. gal. 21.58 - —
l.c.l., same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 - —

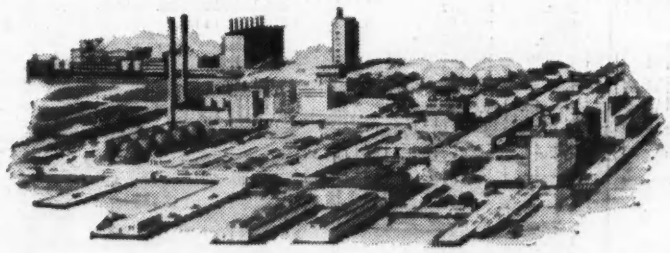
As one of the world's largest producers of

ALCOHOLS and SOLVENTS

PUBLICKER can assure you of Uniform Quality, Steady Supply and Prompt Delivery of:

ETHYL ALCOHOL
BUTYL ALCOHOL
BUTYL ACETATE
ETHYL ACETATE
ACETIC ACID
ACETALDEHYDE
ACETONE

Publicker's Chemical Plant on the Delaware River



PUBLICKER INDUSTRIES Inc.

1429 WALNUT STREET, PHILADELPHIA 2, PA.

NEW YORK & NEW ENGLAND DISTRIBUTOR, PUBLICKER ALCOHOL & CHEMICALS SALES CORPORATION

PHILADELPHIA—LOCUST 4-1400 • PITTSBURGH—LOCUST 1-8527 • NEW YORK—OXFORD 5-4160 • BOSTON—FAIRVIEW 4-1888

Alcohol, 2-ethylbutyl, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —
Furfuryl, eng., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia. lb. .21 - —
Newark, N. J. lb. .21½- —
l.c.l., Cedar Rapids, Ia. lb. .22 - —
Newark, N. J. lb. .22½- —
tanks, Memphis, Tenn. lb. .184 - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .15 - —
tanks, dlvd. lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E. lb. .23 - —
l.c.l., dlvd. E. lb. .24 - —
tanks, dlvd. E. lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .48 - —
l.c.l., dlvd. gal. .55 - —
tanks, dlvd. gal. .35 - —
95%, dms., c.l., dlvd. gal. .50 - —
l.c.l., dlvd. gal. .57 - —
tanks, dlvd. gal. .37 - —
99%, dms., c.l., dlvd. gal. .52 - —
l.c.l., dlvd. gal. .59 - —
tanks, dlvd. gal. .39 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots. lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms. lb. 1.57 - 2.15
standard, dms. lb. 1.35 - —
n-Propyl, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd. lb. .13 - —
tanks, dlvd. lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia. lb. .47 - —
tanks, Niagara Falls, N. Y. lb. .43 - —
Industrial grade, dms., c.l., Niagara Falls, N. Y. lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia. lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms., works fb. .23 - —
denaturing grade dms gal. 2.15 - —
Aldrin, 60% soln., dms., c.l., works, frt. alld lb. .538 - —
l.c.l., works, frt. alld lb. .755 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 100% dms. frt., alld lb. 32.00 - —
90% dms., frt. alld lb. 29.15 - —
solution, 20% dms. 100-lb lots frt. alld lb. 6.80 - —
2½% dms., frt. alld lb. .90 - 1.25
Allspice (see Pimento).
Allyl bromide, cnys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¼
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs. .36 - —
powdered, cs. lb. .50 - —
Curacao, kgs. lb. .50 - .55
Socotrine, kgs. lb. No prices
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 3.82
Alphanapthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous dms lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
l.c.l., works lb. .0410- .0510
Aluminum acetate, basic solut., 24%, bbls., l.c.l. works lb. .14 - —
Chloride, com'l, anhyd. dms., c.l., works, frt. equald lb. .15 - —
l.c.l. works, frt equald. lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
l.c.l., works lb. .1070- —
soln. 32° cbys., c.l., works lb. .0369- —
l.c.l., works lb. .0435- .0960
tanks, works 100 lbs. 2.80 - —
NF, gran. dms. works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .1540- —
l.c.l., works lb. .1640- .1890
Aluminum fluoride, in fib. dms., 0.35c. per lb. higher.
Formate, basic solution, cbys. lb. .09½- —
l.c.l. works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton.60.00 - —
l.c.l., works ton.65.00 -85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15%, Al_2O_3, fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½- —
contract, works lb. .79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .21½- —
pigs, 10,000-lb. lots, frt. alld. lb. .20 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .63½- —
standard, dms lb. .43 - —
Powder, lining, extra fine, dms lb. 1.02½- —
standard, dms lb. .72 - —

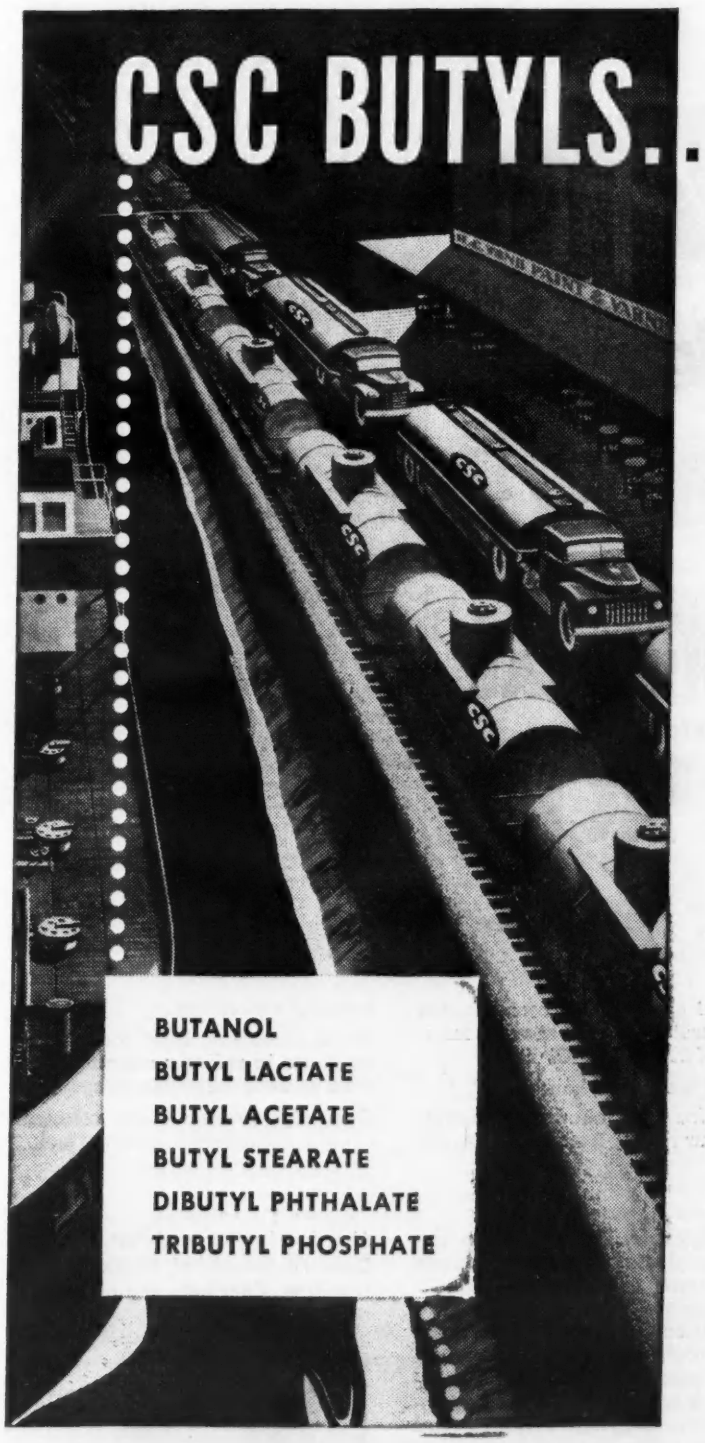
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb. dm., 1½c. per lb for 50-lb dm., 3c. per lb. for 10-lb. can and 5c. to 12c per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over

Resinate, precip., dms., frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
tribasic ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37

Aluminum sulfate, com'l, bulk, c.l., works 100 lbs. 1.85 - —
ground, c.l., bgs., works ton.37.09 - —
lump, c.l., bgs., works ton.40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .22 - .24
Trihydrate heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 -10.00
Aminoazotoluene, tech., bbls lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works. lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., works lb. .60 - —
m-Aminophenol, distilled, dms, ton lots lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld lb. .97 - .98
Aminophylline, USP, 100-lb. dms. lb. 3.55 - —
Aminopyrine, USP, bots., dms. lb. 4.75 - —
Ammonia, anhyd., fertilizer, tanks, works ton.85.00 -88.00
pure cyls., extra, zone 1 lb. .18½- —
2 lb. .19 - —
3 lb. .19½- .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works ton.87.50 -90.50
Aqueous (29.4% NH_3), dms., c.l., dlvd., Met area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis ton.96.00 - —

Alcohol, 2-Ethylbutyl — Ammonium Sulfide

Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 -11.15
white, gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tankcars, works, anhyd. basis ton.96.00 - —
Ammonium acetate, purified, dms. lb. .38 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton.312.00 - —
ton lots, ex whse ton 375.00 - —
smaller lots, ex whse ton.380.00 - —
Bicarbonate, dom. dms., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.50 - —
imported, dms., l.c.l. lb. .07¼- .08½
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd. lb. .2145- .2245
Bromide, NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c. per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white granular, bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms. lb. 2.40 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80% dms. works lb. .50 - .55
Nitrate, fertilizer grade, dom., 33.5% N, bgs., western, works ton.68.00 -70.00
Ammonium nitrate, fertilizer grade, with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —
imported, Canadian, 33.5% N, eastern, bgs., c.l., shipt. point ton.77.50 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.89.84 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., bbls., c.l., works ton.222.00 - —
ton lots ex whse ton 285.50 - —
smaller lots, ex whse ton.290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - .75
Persulfate, kgs lb. .38 - —
Phosphate, com'l, bgs., c.l., works, frt. equald lb. .0865- —
l.c.l., same basis lb. .09 - —
dibasic, NF V bbls., dms lb. .45 - —
tech., bgs., c.l. works, frt. equald lb. .0865- —
l.c.l., same basis lb. .0915- —
Salicylate, NF, dms., kgs lb. 1.62 1.64
Silicofluoride dms. works lb. .11 - .13
Sulfamate, bbls., dms., works lb. .18 - .20
Sulfate, coke-oven, bulk, producing ovens ton.42.00 -47.50
synthetic, bgs. c.l. western works ton.46.50 - —
bulk, works ton.42.00 -45.00
purified, dms., works lb. 08½- .10
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis. ton.240.00 - —
l.c.l., 100% basis, works. ton.300.00 - —
tanks, 100% basis, frt. alld. ton.180.00 - —



in America's production picture

Take a good look at the butyls picture at CSC. Commercial Solvents Corporation was the first producer of Butanol by an exclusive fermentation process in 1920. Today, with greatly expanded production facilities, backed by a quarter century of know-how, CSC is still a leader in the butyls field.

Plants, warehouses and sales offices coast to coast bring CSC's butyls and butyl derivatives to industry's door. No matter what your need . . . from a drum to a tanker . . . CSC is ready to serve you promptly, efficiently.

There are still no substitutes for butyls in making the finest lacquers. Countless other uses confirm the importance of butyls in American industry:

HYDRAULIC FLUIDS • METAL CLEANERS
BLENDING AGENTS • SELECTIVE EXTRACTANTS
SYNTHETIC RESINS • HERBICIDES
RUBBER CHEMICALS • LUBE OIL ADDITIVES

Write, wire or phone Industrial Chemicals Sales Dept., Commercial Solvents Corporation, 260 Madison Avenue, New York 16, N. Y., for full information.

Ethyl alcohol and derivatives • Methanol
Methylamines • Ammonia • Aminohydroxy Compounds
Riboflavin crystals • Ethyl acetate • Ethyl lactate
Hydroxylammonium salts • Nitrohydroxy compounds
Nitroparaffins • Alkaterge®-C • Formaldehyde
Pentaerythritol

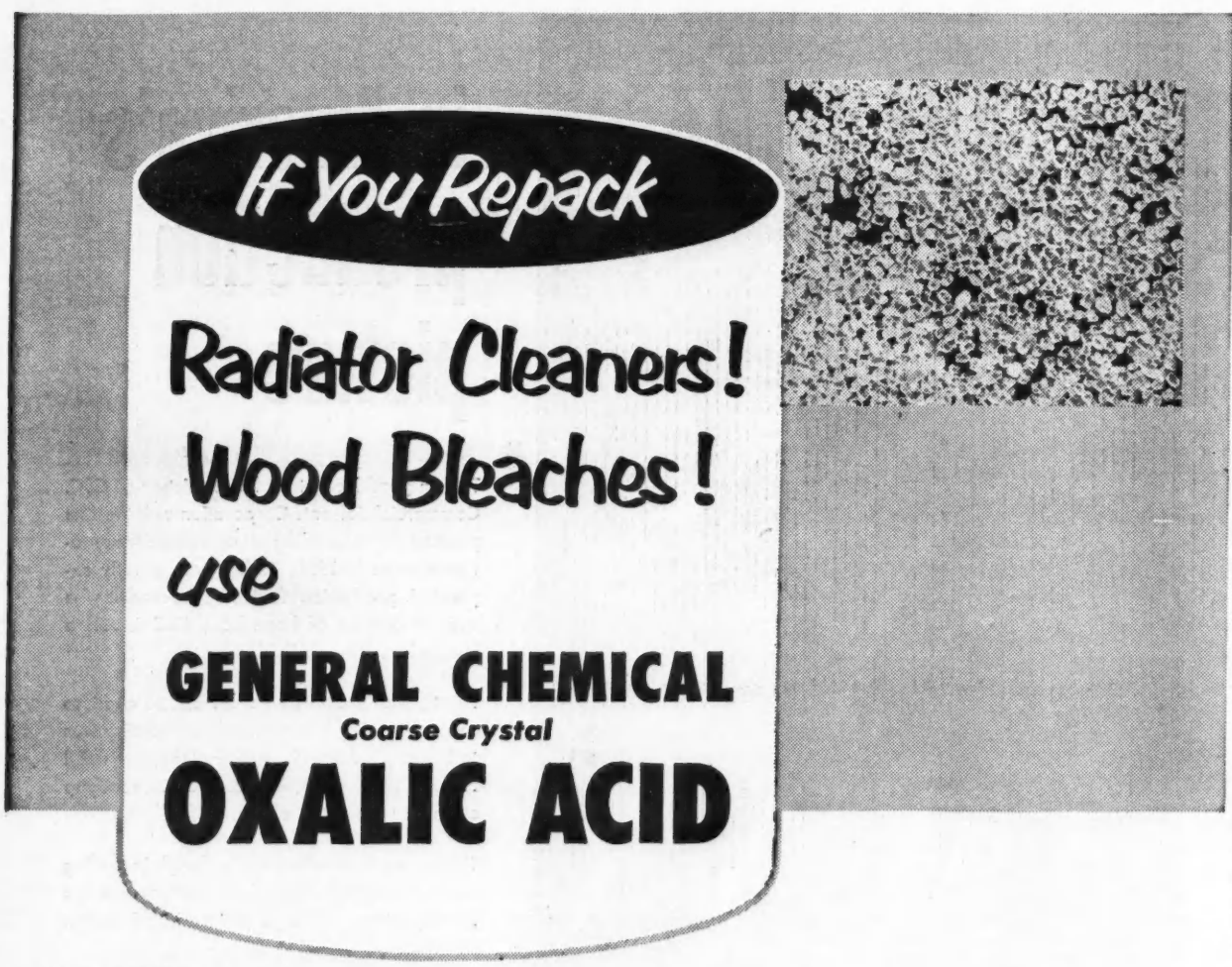
COMMERCIAL SOLVENTS
260 MADISON AVENUE NEW YORK, N.Y.
CSC INDUSTRIAL CHEMICALS

Ammonium Sulfocyanide—Bismuth Subgallate

Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .26
Thioglycollate, com'l, cbys., 100% basis lb. 1.60 - —
highly purified, cbys., 100% basis lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib dms., frt. alld lb. .65 - —
60% solution, dms. c.l. works lb. .06½ - —
d-Amphetamine hydrochloride di-basic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms lb 28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., frt. alld. E of Rockies lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
ex pentane, regular, dms., c.l., dlvd lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
technical, dms., c.l., dvld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol amyl).
n-Butyrate, dms lb. .90 - 1.25
Cinnamic aldehyde, dms lb. 1.70 - 2.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05
o-tert-Amyl phenol, dms., c.l., works. lb. .43¾- —
l.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
p-tert-Amyl phenol, dms., c.l., works. lb. .26½- —
l.c.l., works lb. .27½- —
tanks, works lb. .25½- —
Anethole, NF, cns., dms lb. 1.25 - 1.55
tech., dms lb. .75 - 1.20
Angelica root, dom., bls lb. .60 - .70
Aniline oil, dms., c.l., works, frt. alld. lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., frt. alld lb. .33 - —
Anise, Mexican, bgs lb. .24 - —
Spanish, bgs. lb. .28 - —
Syrian lb. .20 - .21
Anisic aldehyde, bots., dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs. lb. .24 - —
powdered, dms lb. .48 - —
Anthracene 90-95% bbls. ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .88 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .28½- —
cases, c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .26 - —
l.c.l., frt. alld lb. .27½- —
Sulfide, approx. 60%, bgs., dlvd. lb. .27 - .30
Trichloride, anhyd., pails, c.l., works lb. .38½- —
l.c.l., works lb. .40½- —
Antimony potassium tartrate, tech., gran. or powd., dms lb. .56 - .59
USP, powd., dms lb. .61 - .62
Antipyrine, NF, dms lb. 2.50 - 2.70
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls. lb. .15 - .16
Arecoline hydrobromide, NF, bots. tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1-kilo lots kilo.77.00 - —
Argols, min. 50%, bgs shipment ports per 100 kilos, 100% basis.24.50 - —
Arnica flowers (true montana), bls. lb. 2.00 - —
Arsenic metal, lump, bbls., prompt ship't lb. .60 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l. dlvd lb. .06½- .07½
Asafetida, cs. lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines.ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.78.00 - —
7D, c.l. (30 tons), mines ton.68.50 - —
7F, c.l. (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l. (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
Asbestos, Canadian, crude, 7RF, c.l., (30 tons), mines ton.40.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
8S, c.l., (30 tons), mines ton.27.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, jet, bgs., c.l., mines ton.37.00 - —
select, 350°F., fusing point, bgs., c.l., mines ton.38.00 - —
270° 295°F fusing point bgs., c.l., mines ton.37.00 - —
seconds, 300° 390°F. fusing point, bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tank-wagon, refinery gal. .09 - —
emulsion, tanks, tank wagon refinery gal. .09½ - .10
steam-refd., less than 80 penetration tanks, tankwagon refinery ton.21.00 - —
80-300 penetration, tanks, tank wagon, refinery ton.20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 7.00 - —
Sulfate, USP, bots oz. 4.00 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root, bark, bags lb. .28 - .30
Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.92.50 - —
smaller lots works ton 102.50 - —
Chlorate, kgs., works lb .32 - .36
Chloride, anhyd. bgs., c.l., works. ton.158.00 - —
l.c.l., works ton.168.00 - —
crystals, tech., dms., c.l., works. 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.50 - —
NF, crys., dms lb. .18 - —
Chromate, bgs. frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, crystals, bgs ton.190.00 -200.00
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide grd., dms., c.l., frt. equald. ton.255.00 - —
l.c.l., works ton.265.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, cns., c.l., frt. alld lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb. .14 - .14½
Sulfide, dms., c.l., works ton.85.00 - —
l.c.l., works ton.95.00 - —
Barytes, Southern off-color, bgs., mines ton.25.00 - —
95.75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse., N. Y. ton.60.10 - —
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .28 - .32
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh bgs., c.l., mines ton.14.00 - —
imported, Italian, white high gel., bgs., 5 ton-lots, ex-whse ton.80.60 - —
1 ton-lots, ex whse ton.83.10 - —
low gel, bgs., 5 ton-lots, ex whse ton.78.95 - —
1 ton-lots, ex whse ton.81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldenyde, NF, dms lb. .74 - 1.05
tech., cbys., dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .009 - .01
l.c.l., works, gamma unit-lb. .015 - —
wet dust, distributors, dms., c.l., dlvd., gamma unit lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 - —
Benzocaine, dms lb. 3.48 - 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa. gal. .40 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa. gal. .40 - —
Lackawanna, N. Y. gal. .40 - —
Lone star, Texas gal. .40 - —
Lorain, Ohio gal. .40 - —
Minnequa, Colo gal. .39 - —
Philadelphia district gal. .40 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md. gal. .40 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind. gal. .40 - —
Youngstown, Ohio gal. .40 - —
Benzophenone dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald. lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .20 - —
Peroxide, pure, fib. cns., works. lb 90 - 1.05
Benzyl acetate, f.f.c., cns., dms. lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms. lb. .62 - 1.10
Chloride, tech., cbys., dms., c.l., works, frt. equald. lb. .20½- .23½
l.c.l., same basis lb. .21½- .24½
High grade benzyl chloride, 2c. higher.
Cinnamate, cns. lb. 3.35 - 3.90
Formate, cns. lb. 1.30 - 2.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Benzyl isoeugenol, cns. lb. 8.60 - 9.10
Berberine bisulfate, cns. lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine)
BHC (see Benzene hexachloride, technical).
Biotin cryst., bots gram.10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms. lb. 2.10 - 2.17
Oxide, anhydrous, dms lb. 4.47 - 5.05
Oxychloride, dms. lb. 4.37 - 4.42
Phenolsulfonate, fib. dms lb. 5.23 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —



Here's Why:

In your plant—

Trouble-Free: Uniform, coarse crystals mean better performance in mechanical filling equipment. There is less tendency to form agglomerates or arch in bins.

Highest Quality: No contaminants or impurities. Always assays a minimum of 99.2% $C_2H_2O_4 \cdot 2H_2O$.

In your customer's hands—

Free-Flowing: Uniform coarse crystals pour readily from container. No lumping and caking.

Rapid Dissolving Rate: Better performance in radiator cleaning solutions or wood-bleaching compounds.

Good Appearance: Clear, colorless crystals have sparkle, quality "look."

Whether you require Oxalic Acid in coarse crystal form for manufacture of auto radiator cleaners . . . or a fine crystal material for industrial process uses . . . General Chemical can "fill the order" for you.

Long recognized for its consistently high purity, General's Oxalic Acid is a clear, colorless product which assays a minimum of 99.2% $C_2H_2O_4 \cdot 2H_2O$. It is made in the coarse and fine crystal forms to meet every need.

If you use Oxalic Acid, and have never tried General's product, do so now. You'll be agreeably surprised at its marked superiority on every count. For samples and further information, call your nearest General Chemical office listed below.

Also for: Leather and Furs, Textiles, Dyes, Pentaerythritol, Plastics, Drugs, Laundries, Chemicals and other uses.

GENERAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.

Offices: Albany • Atlanta • Baltimore • Birmingham • Boston • Bridgeport • Buffalo • Charlotte Chicago • Cleveland • Denver • Detroit • Greenville (Miss.) • Houston • Jacksonville • Kalamazoo Los Angeles • Minneapolis • New York • Philadelphia • Pittsburgh • Providence • San Francisco Seattle • St. Louis • Yakima (Wash.) • In Wisconsin: General Chemical Company, Inc., Milwaukee
In Canada: The Nichols Chemical Company, Limited • Montreal • Toronto • Vancouver

Allied Chemical
Basic Chemicals For American Industry

Bismuth subiodide, fib. dms....lb. 5.37 - —
Subnitrate, NF, dms.....lb. 2.65 - —
Subsalicylate, USP, dms.....lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., works.lb. .17 - —
cs., l.c.l., ship't point .....lb. .22½- .26
Ash (see Barium Sulfide).
Bone, dms., l.c.l., frt. alld.....lb. .15½- .22
Pacific coast bone black prices, 2c. per lb higher
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse.lb. .78 - —
medium color, uncompressed, bgs., c.l., works lb. .12 - —
l.c.l., dlvd. or whse.lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works..... lb. .074 - —
l.c.l., works..... lb. .1225- —
furnace, fast extruding, ogs., c.l. works lb. .06
ctns., l.c.l., whse .... lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd or whse lb. .122 .125
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works, lb. .12¾- —
l.c.l., works ..... lb. .13 - —
Lamp, bgs., c.l., works.....lb. .16 - .45
Mineral, bgs., works.....lb. .0160- .0675
Blackberry root bark, bls.....lb. .50 - —
Black haw root bark, bls.....lb. .65 - .70
tree bark, bls..... lb. .40 - .45
Blanc fixe, dry, byproduct, bgs., c.l., works. ton.190.00 - —
l.c.l., works.....ton.200.00 - —
direct process, bgs., c.l., works. ton.100.00 - —
l.c.l., works.....ton.110.00 - —
N. Y. whse.....ton.140.88 -165.00
pulp, 70%, bbls., c.l., works. ton.105.00 - —
l.c.l., works..... ton 115.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 5.02 - —
l.c.l., works.....100 lbs. 6.52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 8.00 - —
high-grade unground, 16-17% ammonia, bgs., Chicago. unit-ton. 8.25 - —
soluble, bgs., c.l..... lb. .17 - .19
l.c.l. .....lb. .18 - .25
Bloodroot, bls.....lb. .60 - .65
Blue alkali, dry, bbls., dlvd. N. or Tenn. and N C., & of Miss R. including St Paul Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
toner bbls. tithe flushed same basis lb. 1.15 - —
Chinese, bbls., same basis .... lb. .48 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 3.85 - —
Milori, bbls., same basis ..... lb. .48 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb. .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .48 - —
soluble, bbls., same basis . lb. .48 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .16½- .18½
reguiar types, dry, bbls. same basis lb. .22½- .35
Victoria toner, molybdic, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls.....lb. 5.00 - —
Blue, dry colors, dlvd. prices 1½c higher Ala., Fla., Ga., La. (Shreveport, 1¼c), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.) Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast Denver Pueblo, Salt Lake City Wichita frt. equalized with Chicago
Blue vitrol (see Copper sulphate).
Bluestone (see Copper sulphate).
Bonemeal, steamed, works, E..ton.60.00 -62.00
Bone phosphate, defluorinated (see D), of lime (see Calcium phosphate, tribasic)
precipitate, (see Calcium phosphate tribasic, NF precip.).
Borax, tech., anhyd., bgs., c.l., works. ton.78.00 - —
ton lots ex whse. N. Y. or Chicago..ton.125.75 - —
bulk, c.l., works.....ton.70.00 - —
crystals, 99%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works..ton.41.25 - —
ton lots, ex whse., N. Y. Chi..ton.89.00 - —
smaller lots, same basis. ton.94.00 - —
bulk, c.l., works.....ton.35.75 - —
pentahydrate, 99½%, bgs., c.l., works..ton.55.50 - —
ton lots, ex whse, N.Y., Chi ton.108.25 - —
smaller lots, same basis. ton.103.25 - —
powder, 99½%, bgs., c.l., works ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.00 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point..lb. .18 - .24
l.c.l., same basis.....lb. .19 - .26
Borneol, cns. .....lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works..lb. .62 - —
less truckload, works.....lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purified, cs., c.l., dlvd. E. of Rockies lb. .27 - —
l.c.l., up to 1,000-lb. lots, same basis lb. .29 - —
tlms., lead-lined, dlvd ..... lb. .34 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. ..... lb. 1.52 - —
Bromstyrol bots..... lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .13¾- —
l.c.l., works lb. .14 - —
Oxide, metallic, bgs, works....lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½ .15½
raw, paper, bgs. c.l. works lb. .04½ .13
l.c.l. works lb. .04¾ .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- .07
Turkey type bgs., c.l. Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y lb. .06¾- —
l.c.l., works..... lb. .07 - —
raw, American bgs. works lb. .06¼ .06½
Turkey-type, bgs., works lb. .06¾- .07
Vandyke bbls. works lb. .09½- .12
Brucine, cns., 100-oz. lots ... oz. .20 - .35
Sulfate, NF, cns., 100-oz. lots. lb. .15 - .30
Buchu leaves, bls..... lb. .50 - —
Butadiene, refined, cyls., refinery.lb. .22 - —
tanks, refinery lb. .15 - —
Butane, indust., tanks, group 3 gal. .03 - —
n-Butyl acetate, fermentation, dms., c.l., frt. alld. lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13 - —
Butyl acetate, n-synthetic, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13 - —
sec-synthetic, dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis.....lb. .13¾- —
tanks, same basis.....lb. .10¾- —
Alcohol (see Alcohol n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works.....lb. .37½- —
c.l., works ..... lb. .38 —
n-Ether, dms., c.l., works.....lb. .31½- —
l.c.l., works.....lb. .32 - —
tanks, works.....lb. .30 - —
Lactate dms., c.l., frt. alld. E. or Rockies lb. .35 - —
l.c.l., same basis..... lb. .36 - —
tanks, same basis ..... lb. .33 - —
Laurate, dms., works.....lb. .39 - —
Methacrylate normal, dms., less truckloads works lb. .70 - —
Oleate, refd., dms., l.c.l., works.lb. .32 - —
Phenylacetate, dms lb. 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms, l.c.l., frt. equald lb. .24 - .27
Butylamine (see mono-di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works..lb. .49 - —
l.c.l., works.....lb. .50 - —
tanks, works.....lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½- —
l.c.l., works.....lb. .26½- —
Butyraldehyde, dms., c.l., dlvd..lb. .21½- —
l.c.l. dlvd.....lb. .22½- —
tanks, dlvd.....lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter)
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, natural, USP, cryst., dms., 100-lb. lots or more lb. 2.65 - —
anhydrous, dms lb. 2.85 - —
synthetic, USP, cryst., dms., 100-lb. lots or more lb. 2.65 - —
anhydrous, dms 100 lbs. or more lb. 2.85 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.65 - —
Calamine, USP, dms ..... lb. .34 - —
Calciferol cryst., vials, 1 kilo lots, works gram. .75 - —
25 to 100 gram lots, works. gram. .80 - .90
in edible oil (see Viosterol).
Calcium, p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adj. lb. 7.00 - —
smaller lots, same basis .. lb. 7.05 - 7.50
Arsenate, dealers, dms., c.l., whse works, frt. alld on 96 lbs or over lb. .09 - .10
l.c.l., same basis..... lb. .10 - —
Bromide, NF, jars ..... lb. .90 - .97
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —
Carbonate, natural, dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton. 7.50 - 10.00
chalk, whiting, 325 mesh, bgs., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00

WHAT'S THE DIFFERENCE?

n-butyl acetate

vs.

isobutyl acetate

The only REAL DIFFERENCE to you may be their COST

Are you cashing in on the savings that isobutyl acetate can bring you?

Many lacquer manufacturers are. In their lacquer thinner formulations, *n*-butyl acetate and other solvents are being successfully replaced in part or entirely with lower-priced isobutyl acetate.

For example, in the widely used federal specification thinner TT-T-266a, the use of isobutyl acetate has resulted in a 4% savings in material costs. The use of isobutyl acetate in this thinner and the resulting savings is typical of a number of formulations prepared and tested in our laboratories.

In many plants, deliveries of isobutyl acetate are being made directly into the tanks formerly used for *n*-butyl acetate. These companies are making an extra profit on every gallon of lacquer that leaves their plant.

Today, Eastman isobutyl acetate is finding wide acceptance as a lacquer solvent in its own right as well as a satisfactory replacement for *n*-butyl acetate. Its quality is uniformly high. Its price is low and stable.

For detailed information on how this Eastman solvent can reward formulators interested in exploring new ways to cut costs, write to Eastman Chemical Products, Inc., Chemicals Division, Kingsport, Tennessee.

Eastman
CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE
Subsidiary of EASTMAN KODAK COMPANY

SALES OFFICE: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York—260 Madison Ave.; Framingham, Mass.—65 Concord St.; Cincinnati—Carew Tower; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; St. Louis—Continental Bldg.; Houston—412 Main. St. West Coast: Wilson Meyer Co.; San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Seattle—821 Second Ave.

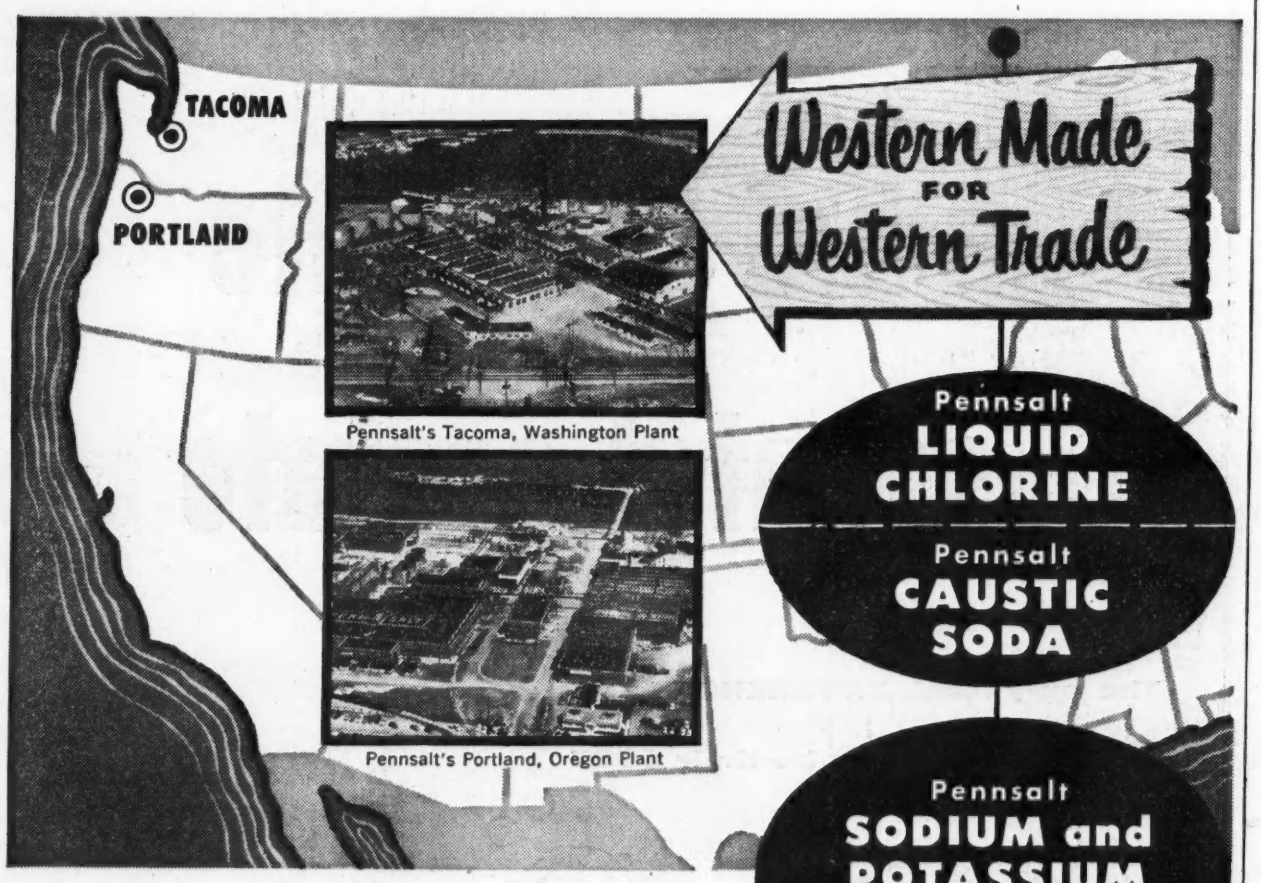
Calcium Carbonate, Precip., Dense—Chloroform

Calcium carbonate, precip., dense, bgs., c.l., works ton 30.00 -33.00
l.c.l., works ton 40.00 -48.00
medium, bgs., c.l., works ton 35.00 -
l.c.l., works ton 45.00 -50.00
surface treated, bgs., c.l., works ton 35.00 -50.00
l.c.l., works ton 45.00 -65.00
ultrafine, bgs., c.l., works ton 110.00 160.00
l.c.l., works ton 120.00 175.00
Chloride, cryst., purified, dms lb. .27 - —
daxe 77-80% paper bgs. c.l. works, frt. equald ton 27.00 - —
liquor, 40%, tank cars works frt. alld ton 11.35 - —
pellets, bgs., c.l., works ton 33.00 - —
powder, bgs., c.l., works ton 37.65 - —
solid, 73-75% dms. c.l., frt equald ton 25.50 - —
t.c.l. works same basis ton 34.00 -71.00
USP, gran., dms lb. .40 - —
Chromate bgs frt equald lb. 29½ .30
Cyanide dms. divd E of Rockies, lb. .24 .50
Gluconate, AA bbls. dms lb. .70 .72
USP, bbls. dms lb. .53 .65
Glycerophosphate, NF, fib. dms lb. 2.30 - 2.45
Hydride, dms., works lb. 2.20 - 4.00
Hypochlorite, high test, cased (45 lbs.), divd. E. of Rockies cs. 22.60 -24.75
dms., 100-lb., same basis dm. 28.65 -32.50
Hypophosphite, dms. ton lots or less lb .90 .93
Iodide, jars oz 4.52 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48

Calcium mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton 48.00 - —
tech., dms., works lb. .13 - —
d-Pantothenate, jars, 100-gram lots or more, frt. adjusted, gram .07½- —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms. lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
t.c.l. 100 lbs. 7.60 - 7.95
feed grade, bgs., c.l., works, ton 74.00 -84.00
l.c.l., bgs., works ton 85.00 -95.00
monobasic, bgs. 10,000-lb. lots, works, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis, 100 lbs. 6.55 - —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.60 - —
t.c.l. works 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip., dms., frt. alld., works lb. .27¾- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
t.c.l. works lb. .06½- —
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 4.97 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .10½- —
l.c.l., same basis lb. .12 - .20
tanks, same basis lb. .06 - —
Chlorinated, 67-69% (see Toxaphene).

Camphor monobromated, NF, dms., kgs lb. 3.00 - 2.12
natural, USP, powd., cs., 100-lb. lots lb. .58 - .60
tablets, 1-oz., ½-oz. cs lb. .75 - .80
synthetic, tech., 1 bbl. or more lb. .49 - —
USP, gran., powd., bbls, 2,000-lb. lots lb. .54 - —
1,000-lb. lots lb. .55 - —
smaller lots lb. .56 - —
tablets, tins, 2,000-lb. lots lb. .85 - —
1,000-lb. lots lb. .86 - —
smaller lots lb. .87 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs. lb. 2.25 - 2.30
Russian, bgs. lb. 4.00 - 4.05
powd., bxs. lb. 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin, NF from domestic pepper, dms. lb. 4.50 - 5.25
from African pepper, dms lb. 4.35 - 5.00
Caraway seed, Dutch, bgs lb. .16 - .16¼
Carbazole, 97%, bbls., ton lots, works lb. 1.03 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, industrial, wholesale, bulk ton 73.00 -115.00
cyls. lb. .08 - —
solid lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .0750- —
l.c.l., same basis lb. .0850- —
5-gal. dms., c.l., same basis lb. .1025- —
l.c.l., same basis lb. .1125- —
tanks, same basis lb. .0525- —

Carbon tetrachloride, CP, dms., works lb. .11 - .13¾
NF, chys lb. .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb. .0925- —
W. of Rockies, f.o.b., stockpoints lb. .0975- —
l.c.l., E. of Rockies, frt. alld. alld lb. .115 - —
W. of Rockies, f.o.b. stockpoints lb. .12 - —
tanks, E. of Rockies, frt. alld. lb. .0825- —
W. of Rockies, f.o.b. stockpoints lb. .12 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom fruit, fancy, bleached, A, cs lb. 3.95 - —
medium, cs lb. 3.70 - —
decorticated, Alleppey, cs lb. 1.85 - —
Guatemalan, cs lb. 1.80 - —
green, Alleppey, bgs lb. 1.85 - —
Ceylon, bgs lb. 1.85 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lb. lots or more, divd lb. 6.50 - —
smaller lots, divd lb. 6.65 - 7.15
Carotene, technical, 1,350,000 A units per gram, tins, works gram .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units, per lb., dms., works million units. .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works million units. .33 - —
Carvol, bots. lb. 4.75 - 9.65
Cascara sagrada bark, bulk lb. .36 - —
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, ship't point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, ship't point lb. .35 - .40
imported, Argentine, acid-precip., grd., 100-lb. lots or more, duty paid lb. .22 Nom.
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .15½- —
longstick, cracked, bls lb. .17½- —
shortstick, cracked, bls lb. .16½- —
Saigon, broken, bls lb. Nominal
medium, bls. lb. .85 - —
thin, bls. lb. .90 - —
Castor beans, bgs., f.o.b. Brazilian ports long ton 110.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton 27.00 Nom.
Castoreum, syn., cns lb. 9.00 - —
natural, cns lb. 5 00 -30.00
Catechol, CP, cryst., fib. dms., works lb 2.17½- —
resublimed, dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs lb. .45 - .47
Indian, bgs. lb. .18 - .18½
Celluloid scrap (see Pryoxylin scrap).
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, divd. E lb. .35 - .46
Butyrate, powd., 17% butyryl content, bgs., works lb. .54 - —
27% butyryl content, bgs., works lb. .64 - —
38% butyryl content, bgs., works lb. .54 - —
50% butyryl content, bgs., works lb. .63 - —
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.05 - —
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 1.98
smaller lots works lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .70 - .75
Roman cs lb. 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots works lb. .27 .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton 77.00 -88.00
granular bgs. works ton 77 00 —
bulk c.l., works ton 70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton 53.50 -63.50
t.c.l., works, South ton 53.50 -63.50
lump bgs., c.l., works, South ton 50.00 - —
t.c.l., works, South ton 53 00 -67.50
bulk, c.l., works, South ton 31.50 - —
Chestnut extract, liquid, 25% tannin, bbls., c.l., works lb. .0510- —
l.c.l., works lb. .0543- —
tanks, works lb. .04¼- —
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
l.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .66 - —
clarified, dms., c.l., frt. alld lb. .75 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .76 - —
Chloramine T, NF, bbls., works lb. .75 - 1.00
m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
l.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., works. lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works. lb. 1.33 - —
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .13½- —
l.c.l., same basis lb. .16½- —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
l.c.l., works lb. .61 - .62
Chlorine, liquid, cyls., c.l., works, frt. equald lb. .09½- —
l.c.l., Metropolitan area lb. .11 - .12¼
tanks, single units works, frt. equald 100 lbs. 2.93 —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
Chloroform, tech., dms., c.l., divd. E lb. .18 - .183
l.c.l., same basis lb. .19 - .20
tanks, same basis lb. .17 - .171
USP, dms lb. .30 - .35



Western Made FOR Western Trade

Pennsalt LIQUID CHLORINE

Pennsalt CAUSTIC SODA

Pennsalt SODIUM and POTASSIUM CHLORATE

Pennsalt plants in Portland and Tacoma provide western manufacturers with a convenient, dependable source of Liquid Chlorine, Caustic Soda, and Sodium and Potassium Chlorate. These basic chemical building blocks, essential to the petroleum, pulp, chemical, and other industries, are prepared by Pennsalt in all commercial grades and forms for volume shipment throughout the West.

If you have a plant in the West, you will be interested in knowing more about these and many other western-made Pennsalt Chemicals. For complete information, write or call the Pennsalt district office nearest you.

DISTRICT OFFICES AND TELEPHONES

Berkeley 4, Calif.—Ashberry 3-2537
Los Angeles 11, Calif.—Jefferson 6244
Portland, Ore.—Atwater 7655
Tacoma 1, Wash.—Market 9101

Pennsalt Chemicals

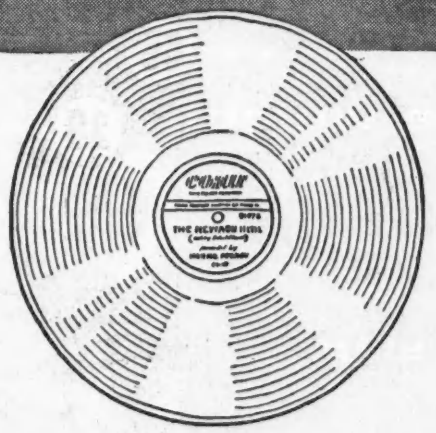
PENNSYLVANIA SALT MANUFACTURING COMPANY OF WASHINGTON
2901 TAYLOR WAY, TACOMA 1, WASHINGTON

2-Chloro-4-nitroaniline, paste, 100% basis lb. .81 - —
4-Chloro-2-nitroaniline, dms., dlvd. lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
Chlorophyll, oil soluble, 4%, not fixed, pails, tins, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb 4.25 - —
Sodium-copper, equeous soln., 4%, dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
concentrated, dom., 50%, dms., works, 100% basis lb.42.00 - —
75%, dms., works, 100% basis lb.45.00 - —
90%-100%, dms., works, 100% basis lb.45.00 - —
imported, 60%, tins, 100% basis lb.58.00 - —
90%, tins, 100% basis lb.58.00 - —
75%, tins, 100% basis lb.58.00 - —
Chloropicrin, com'l. bots. lb. 1.50 - —
cyls. 180 lbs. frt alld lb .95 - —
100 lbs., same basis lb. .97 - —
25 lbs. same basis lb. 1.22 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 6.85 - —
Choline bitartrate, fib. dms., frt. adjusted lb. 1.50 - 1.75
Chloride, fib. dms., frt. adjusted. lb. 1.50 - 1.75
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.50 - 1.75
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys works lb. .10¼ —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide, NF, bbls lb. .82 - .89
Yellow, (see Yellow, chrome)
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine, cryst, cns, 100-oz. lots oz. .65 - —
Sulfate cns., 100-oz. lots oz. .37 - .40½
Cinchonine cryst, cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms, frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Cinnamon, Ceylon, No. 2, bls lb. .45 - .46
"0000," bgs., ship't lb. .55 - .56
Citral, bots., cns. lb. 3.50 - 4.50
Citronellal, bots., dms lb. 1.85 - 2.50
Citronellol, bots., ums lb. 2.00 - 2.55
Civet artificial bots m 13.75 -15.00
natural, bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton.19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton.10.00 - —
purified, bgs., c.l., Tenn ton.20.50 - —
imported, airfloated, bgs., c.l., Atlantic port, long ton.42.00 -45.00
lump, bulk, Atlantic port. ton.27.00 -30.20
China, dom., dry-grd., air-float, 99%, 325 mesh, bgs., c.l., Georgia, works ton.10.00 - —
l.c.l., Georgia, works. ton.15.50 - —
300 mesh, bgs., c.l., Georgia, works ton.13.50 -14.50
l.c.l. ton.35.00 -36.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton.20.00 -35.00
powd., bgs., c.l., ex dock net ton 50.00 —
l.c.l., ex whse net ton.60.00 -65.00
Clove, Madgascar, bls lb. .54 - .55
Zanzibar, bls. lb. .66 - .67
CMC, purified, high vis. (see Gum Cellulose), standard, low vis., bgs., 23,000 lbs. or over, works, frt alld lb. .60 - —
smaller lots, same basis lb. .62 - —
medium vis bgs. 23,000 lbs. or over, works, frt. alld lb. .57 - —
smaller lots, same basis lb. .59 - —
tech., high vis., 58% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis lb. .56 - —
2,000 to 20,000 lbs., dlvd. E. lb. .58 - —
less than 2,000 lbs., dlvd. E lb. .62 - —
low vis. 80% purity, bgs., or fib. dms., 23,000 lbs., dlvd. E, 100% basis lb. .39 - —
less than 23,000 lbs., dlvd. E lb. .41 - —
62% purity, bgs., or fib dms., c.l., dlvd. E., 100% basis. lb. .39 - —
l.c.l., dlvd. E., basis 100% lb. .41 - —
58% purity, bgs., c.l., dlvd. E., net weight basis lb. .34 - —
l.c.l., dlvd. E lb. .36 - —
47½% purity, bgs., c.l., dlvd. E., 100% basis lb. .39 - —
l.c.l., dlvd. E lb. .41 - —
36½% purity, bgs., c.l., dlvd. E., net weight basis lb. .13½- —
l.c.l., dlvd E lb. .20 - —
CMC prices W. of the Rockies are 1c. per lb. less than dlvd. E. prices.
Coaltar, crude, resale dms., c.l., ex-whse gal. .275 - .30
l.c.l., ex-whse gal. .285 - .32
tanks, ex works gal. .154 - .165
refined, resale, dms., c.l., ex-whse gal. .2850- .3125
l.c.l., ex-whse gal. .2950- .3245
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd lb. 1.37 - —
Carbonate, 46% powd., bgs., dlvd. lb. 2.28 - —
Chloride, 24.2% Co., kgs., dlvd. lb. 1.27 - —
Hydrate, 60-61% Co, bbls., dlvd lb. 2.90 - —
Linoleate, fused, 8½% Co., dms. lb. .75¼- —
liquid, 6% Co., dms lb. .61 - —
Metal, 97-99% kgs., ex whse lb. 2.60 - —
Naphthenate, liquid, 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co., bbls., dlvd lb. 1.12 - —
Phosphate, powdered 32.1% Co., kgs., dlvd lb. 1.79 - —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Resinate, fused, 3% Co., dms lb. .29¼- —
Sulfate, cryst. 21% Co., dms., dlvd lb. .95 - —
monohydrated, 33% Co., dms dlvd lb. 1.49 - —
Tallate, 6% Co., dms., dlvd lb. .45 - .53¼
Cocaine, USP, cns., 100-oz. lots oz.15.00 - —
Hydrochloride, cns., 100-oz. lots oz.11.75 - —
Cochineal, USP, gray, bgs lb .68 .90
Cocillana bark, bgs lb. .65 Nom.
Cocoa butter, bgs lb. 1.25 Nom.
Codeine, NF, cns., 100-oz. lots oz.13.25 - —
Hydrochloride, cns., 100-oz. lots oz.11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz.10.25 - —
Sulfate, USP, cns. 100-oz. lots oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .22 - .25
blue, bls. lb. .22 - .25
Colchicine, USP, bots., cns. oz.33.50 -40.00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .80 - 1.10
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. .20 Nom.
Copaiba balsam, cns., dms lb. .90 - 1.20
Copper acetate, bbls., c.l., works lb. .40 - —
l.c.l., works lb. .41 - —
Carbonate, 55%, bgs., works lb. .253 - .278
Chloride, anhyd., bbls., works lb. .39 - —
crystals, bbls., works lb. .26¼- —
Cyanide, tech., bbls., 1,000-lb. lots or more lb. .619 - —
smaller lots lb. .639 - —
Gluconate, cns., dms lb. 3.00 - 3.24
Hydrate, dms., frt. alld. E. Miss. lb. .40¼- .40¾
Metal, electrolytic, dlvd., Valley basis lb. .30 - —
Naphthenate, liquid, 8% Cu., dms., frt. alld lb. .23½- —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 - —
Oxide, black, bbls., works lb. .39 - .44
red, com'l, bbls., works lb. .41 - .46
Oxychloride, bls., works lb. .40 - .40½
Quinolinolate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. .27¼- —
Copper sulfate, CP, gran., bbls., works lb. .1715- —
cryst., 99%, bgs., c.l., works. 100 lbs.10.35 - —
l.c.l., works 100 lbs.10.60 -11.35
monohydrated, 35% dms., c.l., works 100 lbs.17.10 -17.85
tribasic, dealers, bgs., c.l., works, frt. alld 100 lbs.22.50 - —
l.c.l., works 100 lbs.23.00 -24.50
Undecylenate, dms. lb. 2.90 - 3.00
Copperas (see Ferrous sulfate).
Copra, Atlantic, Gulf ports, c.i.f. ton.175.00 - —
Pacific ports, c.i.f. ton.170.00 - —
Coriander seed, Moroccan, bgs. lb. .06 - .06½
Roumanian, bgs. lb. .07 - .07½
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs. min. 100 lbs. 7.31 - —
l.c.l. 100 lbs. 7.46 - —
Syrup, 42° dms., c.l. 100 lbs 7.32 - —
l.c.l. 100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric Chloride).
Cortisone acetate, NNR, bulk gram. 3.75 - 4.00
Cottonseed meal, 41%, sacked, Memphis ton.65.00 - —
36%, sacked, same basis ton.63.00 - —
Coumarin, cryst., NF, cns lb 2.94 - 3.15
powd. cans lb. 3.20 - 3.25
Cramp bark, NF, bls lb. .85 - .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys. lb. 3.05 - 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 - —
solution, 80%, tanks, works, gal. .2068- —

2-Chloro-4-Nitroaniline—Crotonaldehyde

Creosote, coaltar, refined, dms., c.l., works gal. .3850- —
l.c.l., same basis gal. .4510- —
tanks, same basis gal. .2970- —
Wood, beechwood, cbys., dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb. 1.30 - 1.35
pinewood, dms., works gal. .42½- .50¼
Cresol, tech. 50% below 204°C., dry above 207°C. wide distillation range, non-ret. dms. c.l. frt equald lb. .133 - —
l.c.l., same basis lb. .136 - —
ret. dms., c.l., same basis lb. .1325- —
l.c.l., same basis lb. .1375- —
tanks, same basis lb. .120 - .1225
USP, non-ret., dms., c.l., same basis lb. 1.43 - —
l.c.l., same basis lb. .146 - —
ret. dms., c.l., same basis lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks, same basis lb. .130 - —
o-Cresol, m.p. over 30°C., ret.-dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., frt. equald. lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. .51 - —
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25

IN STEARATES, A SPECK OF DIRT THIS BIG •



...can spoil a perfect recording

Our first consideration in making Metasap® Stearates is always—absolute purity. For Metasap Stearates are used in many things—from plastics, greases, paints to baby powders and cosmetics—where even a few tiny specks of foreign matter would be too many for the performance and the reputation of your product.

Therefore our reasoning is simple: "If *we* screen out those impurities first, *you* are spared the trouble." At Metasap we follow up with the most thoroughgoing series of fine screens, magnetic traps, and filters to be found in the industry. (We even filter the air.) These in addition of course to rigid quality control and the use of equipment which as nearly as possible rules out the chance of impurities in the first place.

For Stearates of supreme uniformity and quality, come to Metasap. Our technical service department will be glad to advise and assist you.

Some industries served by Metasap

PAINT *makers solve pigment suspension problems with Metasap Stearates, producing primers and sanding sealers that have excellent filling qualities.*

LACQUER AND VARNISH *makers use Metasap Stearates to assure efficient flatting, and to obtain marproof finishes.*

PLASTICS *molders use Metasap Calcium, Zinc, and Barium Stearates to improve internal lubrication, which assures superior preforms, better finished products, and longer mold life.*

RUBBER *processors use Metasap Zinc and Magnesium Stearates to lubricate molds and prevent uncured stock from sticking.*

LUBRICANTS—*Grease makers use Metasap Stearates because these outstanding soaps afford a wide range of quality bases that help producers to meet any grease specifications.*

PAPER, *Textiles, Cosmetics, and other industries, and the Construction Field all call upon Metasap Stearates to perform important services.*

METASAP CHEMICAL COMPANY
Harrison, N. J.

Reg. U. S. Pat. Off.
METASAP CHEMICAL COMPANY

Chicago, Ill. • Boston, Mass.
Richmond, Calif. • Cedartown, Ga.

METASAP STEARATES
the cleanest stearates made

Send for our informative FREE book, "Metallic Soaps for Research and Industry."

Cryolite—Dimethyl Sebacate

Cryolite, nat., industrial, bgs., c.l., works..100 lbs.13.00 - —
l.c.l., works..100 los.14.25 - —
Insecticide, dealers, bgs., c.l., dlvd 100 lbs.14.00 - —
l.c.l., dlvd. 100 lbs.15.00 - —
Cube root, powd., 5% rotenone, bgs., works..lb. .25 - —
Cubeb berries, XX, NF, bgs..lb .50 - .51
powd., cs. .....lb. .58 - .59
Cumene, dms., c.l., works.....lb. .12 - —
l.c.l. works.....lb. .14 - —
tanks works.....lb. .11 - —
Cumin seed, Iranian, bgs.....lb. .14¾- .15
Moroccan, bgs.....lb. .15 - —
Turkish, bgs.....lb. .14 - .14½
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08½- —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton.55.00 - —
pulv., 21% N, bgs., works unit-ton. 2.75 - —
Cyclohexane, tech., dms., c.l., works. gal. .70 - —
l.c.l., works .....gal. .72 - —
tanks works .....ga. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¾
l.c.l., works, same basis ....lb. .30 - .38¼
tanks, works, same basis ....lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
l.c.l., works .....lb. .35 - —
tanks, works .....lb. .32 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works .....lb. .47½- —
tanks, works .....lb. .45 - —
Cyclopropane, CP, 8-lb. cyls., works. cyl.48.00 - —
6-oz. cyls., works. .....cyl.12.00 - —
USP, hospitals, cyls., 40-gal. lots gal. .36 - —
100-gal. lots.....gal. .37 - —
200-gal. lots.....gal. .36 - —

D

2-4-D, bbls., c.l., works, frt. equald. lb. .43½- —
l.c.l., same basis.....lb. .494 - —
Butyl ester, dms., c.l., works..lb. .46½- —
l.c.l., same basis.....lb. .51½- .56½
Isopropyl ester, dms., c.l., works. lb. .46½- —
l.c.l., works.....lb. .51½- .56½
Dandelion root, bls.....lb. .35 - .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works.....lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald..lb. .27 - —
smaller lots, same basis....lb. .29 - —
fib. dms., c.l., same basis....lb. .28 - —
smaller lots, same basis....lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd..lb. .35 - —
l.c.l., dlvd.....lb. .37 - —
tanks, dlvd.....lb. .32½- —
Deertongue leaves, bls.....lb. .45 - .48
Defluorinated phosphate, 13% P, paper bgs., works ton.49.50 - —
Rock, 17% P, paper bgs., works. ton.56.00 - —
14½% P, paper bgs., works. ton.48.00 - —
Degras, common, bbls.....lb. .10 - .12
neutral, less 2% ffa., bbls.....lb. .24 - .25
over 2% ffa., bbls.....lb. .23 - .24
Derris root, 5% rotenone powd., bbls lb. .36 Nom.
d-Desoxyephedrine hydrochloride bots..lb.25.00 - —
dl, bots.....lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 8.95 - —
l.c.l. .....100 lbs. 9.10 - —
canary paper bgs. c.l....100 lbs. 8.69 - —
l.c.l. .....100 lbs. 8.84 - —
dark, paper bgs., c.l....100 lbs. 8.79 - —
l.c.l. .....100 lbs. 8.94 - —
white, paper bgs., c.l.. 100 lbs. 8.53 - —
l.c.l. .....100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. .....lb. .10½- .11
Dextrose, USP, dms.....lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots.....lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works.....lb. .33¼- —
tanks, works .....lb. .28¼- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works .....lb. .33¼- —
tanks, works .....lb. .28¼- —
o-Dianisidine dms. .....lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .89¾- .90
l.c.l., same basis.....lb. .90¼- .91
tanks, same basis.....lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E..lb. .32 - —
l.c.l., same basis.....lb. .33 - —
tanks, same basis.....lb. .30 - —
Sebacate, dms., c.l., works, lb. .68 - .68¼
l.c.l., works.....lb. .69½- .70
tanks, works, dlvd.....lb. .70 - .71
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd....lb. .55 - —
l.c.l., same basis.....lb. .56 - —
tanks, same basis.....lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works. lb. .91 - —
l.c.l., works .....lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., works..lb. .31½- .32
l.c.l., same basis.....lb. .32 - .33
tanks, same basis.....lb. .30 - —
Sebacate, dms., c.l., works....lb. .66 - —
l.c.l., works.....lb. .66½- .67
tanks, works.....lb. .64 - —
2,5-Dichloroaniline dms., works...lb. .75 - .80
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis.....lb. .13¼- —
tanks, same basis.....lb. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .16½- —
l.c.l., same basis.....lb. .19 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, refined, dms., c.l., dlvd. E lb. .14 - —
l.c.l., dlvd. E.....lb. .15 - —
tanks, dlvd. E.....lb. .13 - —
tech., dms., c.l., works.....lb. .13 - —
l.c.l., works.....lb. .13½- —
tanks, works.....lb. .12 - —
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works .....lb. .05¾- —
tanks, works .....lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works.....lb. .51¾- —
tanks, works .....lb. .49¾- —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld., works..lb. .58¼- .59
l.c.l., same basis.....lb. .59¼- .60
Dieldrin, dms., frt. alld.....lb. 1.80 - —
l.c.l., frt. alld.....lb. 2.40 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .24¾- —
l.c.l., same basis.....lb. .25¾- —
tanks, same basis.....lb. .23 - —
Diethyl carbonate, dms., c.l., frt. alld..lb. .47 - —
l.c.l., same basis.....lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd lb. .67½- —
l.c.l., dlvd.....lb. .68½- —
tanks, dlvd.....lb. .65½- —
Oxalate, dms., c.l., frt. alld..lb. .42 - —
l.c.l., same basis.....lb. .43 - —
tanks, same basis.....lb. .40 - —
Phthalate, dms., c.l., dlvd.....lb. .27 - —
l.c.l., dlvd. .....lb. .28 - —
tanks, dlvd. .....lb. .25 - —
Sulfate, dms., c.l., works.....lb. .18¾- —
l.c.l. works .....lb. .19¼- —
tanks, works .....lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis.....lb. .51½- —
tanks, same basis .....lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld..lb. .51 - —
l.c.l., same basis.....lb. .52 - —
tanks, same basis .....lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13¼- —
Boriborate, dms., l.c.l.....lb. .31 - —
Diethyl ether, dms., c.l., works. lb. .46½- —
l.c.l., works.....lb. .47 - —
Monobutyl ether, dms., c.l., works..lb. .28¾- —
l.c.l., works.....lb. .29¼- —
tanks, works.....lb. .27 - —
Acetate, dms., c.l., works.lb. .30 - —
l.c.l., works.....lb. .30½- —
tanks, dlvd. E.....lb. .25¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd.....lb. .21½- —
tanks, dlvd.....lb. .19½- —
Acetate, dms., c.l., works lb. .26¾- —
l.c.l., works.....lb. .27¼- —
tanks, dlvd. E.....lb. .25¼- —
Monomethyl ether, dms., c.l., works..lb. .20 - —
l.c.l., works.....lb. .21 - —
tanks, works.....lb. .18½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis.....lb. .44 - —
tanks, same basis .....lb. .41¼- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo.110.00 - —
1-kilo lot.....kilo.120.00 - —
Digitalis leaves, USP, dom., dms., lb. .90 - 1.10
Digitoxin, USP, bots.....gram. 5.50 - 6.00
Diglycol laurate, dms.....lb. .35 - .38
Oleate, dms.....lb. .31 - —
Stearate, dms.....lb. .26 - .27
Dihexyl sebacate, dms., c.l., works lb. .66 - —
l.c.l., works.....lb. .66½- .67
tanks, works.....lb. .64 - —
Dihydrazine sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .17 - —
Sulfate, bulk.....gram. .17 - —
2,2'-Dihydroxy-5,5'-dichloro-diphenyl-methane, pure, dms..lb. 2.80 - 3.00
tech., dms. .....lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd.....lb. .16½- —
tanks, same basis.....lb. .13½- —
Phthalate, dms., c.l., dlvd. E..lb. .31 - —
l.c.l., same basis.....lb. .32 - —
tanks, same basis.....lb. .29 - —
Di-isobutylene, dms., c.l., works..lb. .10 - —
l.c.l., works.....lb. .11 - —
tanks, works .....lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd..lb. .34 - —
l.c.l., same basis.....lb. .35 - —
tanks, same basis.....lb. .33 - —
Sebacate, dms., c.l., works, lb. .65½- .66
l.c.l., works.....lb. .66 - .67
tanks, works, dlvd.....lb. .64 - .64½
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies..lb. .50 - —
l.c.l., same basis.....lb. .51 - —
tanks, same basis .....lb. .48 - —
Dillseed, dewhiskered, bgs.....lb. .14 - —
natural, bgs. .....lb. .13 - —
Dimethyl anthranilate, cns.....lb. 8.25 - 8.75
Chloroacetal, dms., c.l., works..lb. .45 - —
l.c.l., works.....lb. .50 - —
tanks, works.....lb. .40 - —
Dimethyl ethanolamines, anhydrous, dms., c.l., dlvd.....lb. 1.43 - —
l.c.l., dlvd.....lb. 1.45 - —
tanks, dlvd.....lb. 1.40 - —
70%, dms., c.l., dlvd., 100% basis..lb. .55 - —
tanks, dlvd.....lb. .53 - —
Hydroquinone, dms.....lb. 1.70 - 2.75
Phthalate, dms., c.l., works....lb. .29½- —
l.c.l., works.....lb. .30½- —
tanks, dlvd. .....lb. .27½- —
Sebacate, dms., c.l., works...lb. 1.27 - —
l.c.l., works.....lb. 1.28 - —
tanks, works.....lb. 1.25 - —

Plaxpak® carboys are available in 6½ and 13 gallon sizes, jacketed or naked. Unbreakable Plaxpak bottles for industrial use are also available in capacities of one pint through two gallons.

Thirty-eight pounds of dead, unnecessary and expensive tare weight — that's what you shed when you ship in Plaxpak polyethylene carboys. Conventional 13-gallon carboy units weigh at least 66 pounds. Plaxpak plywood jacketed units weigh 28 pounds. The tare weight saving is actually greater that the weight of the Plaxpak carboy.

Sure, the Plaxpak carboy is more expensive to buy initially, but the difference in cost is quickly erased by savings in shipping. On top of that, the Plaxpak carboy is unbreakable. You can use it again and again. It's easier to fill and the extra-wide mouth also facilitates pouring. It's a much smarter package, affords better product identification and one man can handle it.

PLAXPAK CARBOYS...FOR ECONOMY, SAFETY, CONVENIENCE

If you ship in carboys or use them in your plant, you owe it to yourself to investigate the savings and greater safety possible with the Plaxpak carboy. Write for our fast-reading brochure or ask to see our nearest representative.

PLAX

PLAX CORPORATION WEST HARTFORD, CONN.

IN CANADA: Plax Canada, Ltd., Montreal & Toronto

Dimethyl sulfate, 55-gal., frt. dms., c.l., works lb. .15 - —
l.c.l. works lb .16 - —
10-gal. ret. dms., l.c.l., works, lb. .16½- —
Dimethylamine, 25-40%, dms., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l., frt. alld lb. .30½- —
tanks, frt. alld lb. .28½- —
N,N-Dimethylformamide dms., works. lb. .34 - .36
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —
m-Dinitrobenzene, 85°C., dms lb. .20 - —
89°C., dms lb. .22 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld E lb. .15¾- —
tanks, frt. alld., E lb. .15 - —
2,4-Dinitrophenol, bbls. lb. .37 - —
2,4-Dinitrotoluene, oily, dms. lb. .10 - —
refined, dms. lb. .21 - —
Dioctyl adipate, dms., c.l., works. lb. .45½- —
l.c.l., works lb. .46½- —
tanks, works lb. .43½- —
Phthalate, dms., c.l., frt. alld lb. .34 - —
l.c.l., frt. alld lb. .35 - —
tanks, frt. alld lb. .32 - —
Sebacate, dms., c.l., works, lb. .65½- .66
l.c.l., works lb. .66 - .67
tanks, works, dlvd lb. .64 - .64½
Di-o-tolyguanidine, dms., ton lots, dlvd. lb. .57 - —
smaller lots, dlvd lb. .58 - —
1,4-Dioxane, dms., c.l., works lb. .28¾- —
l.c.l same basis lb. .29¼ - —
tanks, same basis lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works. .35 - —
Dipentene dest.-dist., dms., extra, c.l., works gal. .48½- —
l.c.l., works gal. .53½- —
ex-whse. gal. .70 - —
steam-dist., dms., c.l., works, South. gal. .64 - —
dlvd. N. Y gal. .82 - —
tanks, works, South gal. .50 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
Diphenyl in bags ½c. lower.
Oxide, perfume grade, cns lb. .54 - .61
Phthalate, dms., c.l., works lb. .51¾- —
l.c.l., works lb. .53¾- —
Diphenylguanidine dms., ton lots lb. .48 - —
smaller lots lb. .49 - 50
Diphenylhydantoin-sodium, USP, dms lb. 5.30 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13¼- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Divi-divi, 45% tannin, bgs., bls., c.i.f. U.S. ports, exdock ton. 70.00 -72.00
Divinylbenzene, 20-25%, dms., c.l., works lb. .20 - —
l.c.l. works lb. .21 - —
tanks, works lb. .19 - —
40-50%, dms., c.l., works, 100% basis lb. 1.00 - —
l.c.l., works, 100% basis lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .12½- —

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots dlvd:—

Blue, FD & C, No. 1, cns lb. 17.00 -17.60
No. 2, cns lb. 17.00 -17.60
Green, FD & C, No. 1, cns lb. 17.00 -17.60
No. 2, cns lb. 22.20 -22.85
No. 3, cns lb. 35.25 -35.90
Orange, FD & C, No. 1, cns lb. 3.65 - 3.75
No. 2, cns lb. 4.65 - 4.75
Red, FD & C, No. 1, cns lb. 7.55 - 7.85
No. 2, cns lb. 4.00 - 4.10
No. 3, cns lb. 22.20 -22.85
No. 4, cns lb. 7.20 - 7.50
No. 12, cns lb. 5.30 - 5.40
Violet, FD & C, No. 1, cns lb. 17.00 -17.60
Yellow, FD & C, No. 1, cns lb. 10.50 -11.05
No. 3, cns lb. 3.30 - 3.40
No. 4, cns lb. 3.30 - 3.40
No. 5, cns lb. 4.00 - 4.10
No. 6, cns lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Black, D&C, No. 1, cns lb. 10.95 - —
Brown, D&C, No. 1, cns lb. 16.10 - —
Green, D&C, No. 5, cns lb. 16.10 - —
No. 6, cns lb. 16.10 - —
No. 7, cns lb. 14.80 - —
Orange, D&C, No. 3, cns lb. 10.95 - —
No. 4, cns lb. 20.05 - —
No. 5, cns lb. 5.70 - —
No. 10, cns lb. 20.70 - —
Red, D&C, No. 8, cns lb. 2.85 - —
No. 9, cns lb. 2.85 - —
No. 10, cns lb. 2.30 - —
No. 11, cns lb. 1.85 - —
No. 12, cns lb. 2.65 - —
No. 17, cns lb. 10.95 - —
No. 18, cns lb. 24.00 - —
No. 19, cns lb. 15.45 - —
No. 21, cns lb. 3.60 - —
No. 22, cns lb. 10.95 - —
No. 28, cns lb. 24.65 - —
No. 33, cns lb. 17.45 - —
Violet, D&C, No. 2, cns lb. 16.10 - —
Yellow, D&C, No. 7, cns lb. 10.95 - —
No. 10, cns lb. 13.50 - —
No. 11, cns lb. 13.50 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Blue, Ext., D&C, No. 1, cns lb. 16.10 - —
Green, Ext., D&C, No. 1, cns lb. 16.10 - —
Red, Ext., D&C, No. 1, cns lb. 13.50 - —
Yellow, Ext., D&C, No. 1, cns lb. 10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

20 Chrysoidine Y lb. .74 - —
27 Fast light orange 2G lb. .90 - —
31 Phloxine 2G lb. .74 - —
36 Yellow 2G lb. .83 - —
40 Orange R extra, conc lb. 1.06 - —
57 Fuchsine 6B lb. 1.08 - —
79 Scarlet 2R lb. .81 - —
151 Orange AD lb. .55 - —
161 Orange RR lb. .66 - —
176 Fast red A lb. .99 - —
179 Rubine XX, conc lb. 1.14 - —
180 Blue F4B lb. .92 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black, conc. lb. .75 - —
203 Chrome black T lb. .78 - —
208 Fast blue SR lb. .91 - —
216 Chrome red B lb. .84 - —
234 Brown Y lb. .98 - —
246 Blue black, extra, conc lb. .95 - —
275 Milling red 3R, conc lb. 2.03 - —
289 Navy blue 3R, conc lb. 1.19 - —
299 Black F, conc lb. 1.54 - —
304 Neutral black 2B, conc., 200% lb. 2.01 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

326 Fast scarlet 4BNC lb. 1.54 - —
332 Bismarck brown RX, conc. lb. .95 - —
365 Brilliant yellow, conc lb. 2.57 - —
382 Scarlet B lb. 1.82 - —
401 Diazo black BHD lb. .69 - —
406 Blue 2B, extra conc lb. 1.07 - —
419 Red FC, conc lb. 1.12 - —
420 Brown M lb. .98 - —
448 Red 4BX, conc lb. 1.30 - —
518 Diamine sky blue FF, extra, conc lb. 1.50 - —
561 Brown B lb. 2.03 - —
581 Direct black EB lb. .94 - —
593 Green BY, conc lb. .72 - —
596 Yellow Brown K, extra lb. .91 - —
620 Yellow 2G lb. 1.79 - —
640 Yellow XX lb. 1.61 - —
655 Yellow OX lb. 2.04 - —
657 Green V lb. 2.10 - —
662 Brilliant green G lb. 2.79 - —
667 Brilliant milling green 6B, conc. lb. 3.68 - —
671 Blue EG lb. 1.70 - —
681 Crystal violet powder lb. 2.15 - —
698 Violet 4BXN lb. 1.74 - —
720 Brilliant blue BBG lb. 1.88 - —
729 Blue B, conc lb. 2.79 - —
749 Red BX lb. 4.33 - —
814 Yellow NN, conc lb. 3.11 - —
841 Safranine GF, extra, conc., lb. 3.17 - —
865 Nigrosine WSJ lb. .75 - —
922 Blue GXX lb. 1.71 - —
978 Black GXCF, conc lb. .32 - —
1034 Alizarine red SC lb. 2.59 - —
1054 Alizarine blue SAPX lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2.72 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

1085 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste. lb. 1.75 - —
1101 Jade green N, double paste. lb. 1.98 - —
1106 Blue RS, double paste lb. 2.96 - —
1113 Blue BLFD, double paste lb. 2.25 - —
1150 Olive R, single paste lb. 1.10 - —
115- Brown R, shingle paste lb. 1.76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —
1217 Orange RD, single paste lb. 1.65 - —
p-4 Brown PG lb. 2.30 - —
p-24 Gray L lb. 1.60 - —
p-14 Brown EB lb. 1.51 - —
p-30 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc lb. 1.74 - —
p-244 Brilliant scarlet BN lb. 1.31 - —
p-313 Naphthol SWF lb. 2.42 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

Black blue No. 550 lb. .81 - —
Jet No. 551 lb. .89 - —
Brown R, conc lb. 1.72 - —
Orange R, brilliant lb. .90 - —
Red 4B, conc lb. 1.37 - —
Yellow C lb. 1.18 - —
FN, conc lb. 1.22 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—

Auramine O lb. 1.85 - —
Black, basic blue lb. 1.21 - —
Jet lb. 1.21 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—

Blue, methylene, 2 B, conc lb. 1.71 - —
Brown Bismarck R, conc lb. .86 - —
Chrysoidine, R, extra lb. .60 - —
Y, extra lb. .64 - —
Fuchsine, conc lb. 3.08 - —
Green, malachite, conc lb. 2.10 - —
Rhodamine, B lb. 4.33 - —
Safranine, Y, conc lb. 2.90 - —
Violet, methyl, B lb. 1.10 - —

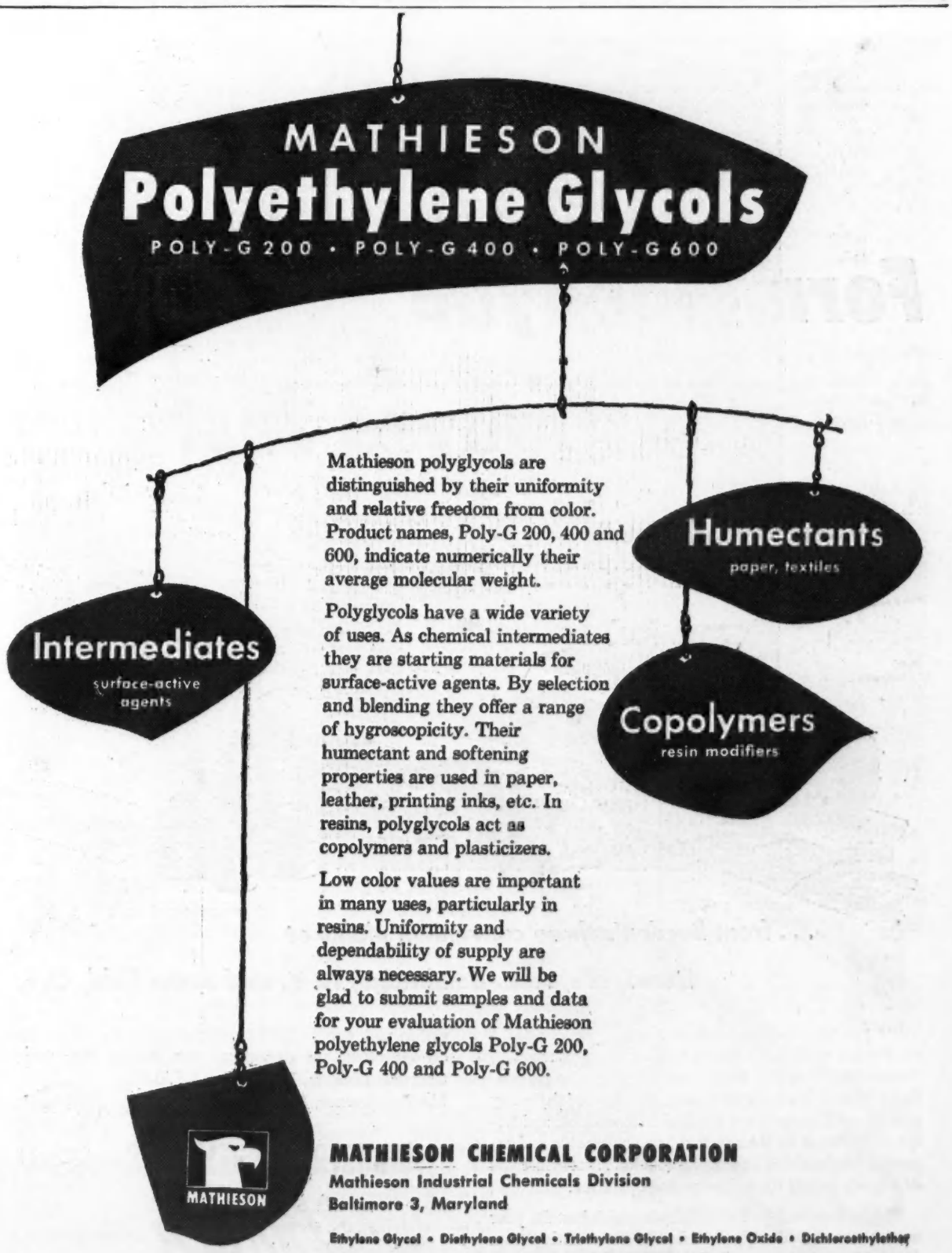
Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—

Azo rubine R, extra conc lb. 1.04 - —
Black, acid blue, B, extra lb. .86 - —
Fast light, 3 G, extra lb. 2.04 - —
Methanil, conc lb. .91 - —
Orange acid, Y, conc lb. .47 - —
Scarlet croceine, MOO lb. 1.45 - —
Yellow, azo, conc lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls lb. 1.23 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls lb. 1.08 - 1.10
tanners, bbls lb. .06 - .06½
Elder flowers, bright, bls lb. .35 - .40
Elm bark, grinding, bls lb. No prices.
powd., bbls., bxs lb. .60 - —
select, bundles lb. .65 - —
Emetine hydrochloride, USP, bots. oz. 32.95 -35.00



Mathieson polyglycols are distinguished by their uniformity and relative freedom from color. Product names, Poly-G 200, 400 and 600, indicate numerically their average molecular weight.

Polyglycols have a wide variety of uses. As chemical intermediates they are starting materials for surface-active agents. By selection and blending they offer a range of hygroscopicity. Their humectant and softening properties are used in paper, leather, printing inks, etc. In resins, polyglycols act as copolymers and plasticizers.

Low color values are important in many uses, particularly in resins. Uniformity and dependability of supply are always necessary. We will be glad to submit samples and data for your evaluation of Mathieson polyethylene glycols Poly-G 200, Poly-G 400 and Poly-G 600.

MATHIESON CHEMICAL CORPORATION
Mathieson Industrial Chemicals Division
Baltimore 3, Maryland

Ethylene Glycol • Diethylene Glycol • Triethylene Glycol • Ethylene Oxide • Dichloroethylether
Ethylene Dichloride • Methanol • Sodium Methylate • Ethylene Diamine • Hexamine

2359

Ephedrine—Gasoline

Ephedrine, syn., USP, anhydrous, bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots. 100-oz lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots oz. .72 - —
powd., tins, 100-oz. lots oz. 73 - —
Epichlorohydrin, dms., c.l., works lb. .39 - —
l.c.l., works lb. .40 - —
tanks works lb. .37 - —
Epinephrine, syn., USP, bots., 100-gram lots gram. .45 - .55
Ergosterol, unirradiated cryst kilo 150.00 -
Ergot, NF, dms., tin-lined lb. 3.25 - 3.50
Eserine salicylate, bots oz. 29.75 -32.50
Sulfate, bots. oz. 34.50 -35.61
Ether (see specific product).
Ethyl acetate, natural fermentation 85-88%, dms., c.l., frt. alld. lb. .13 - —
l.c.l., frt. alld lb. .14 - —
tanks, frt alld lb. .11 - —
95-96%, dms., c.l., frt. alld. lb. .13¼- —
l.c.l., frt. alld. lb. .14¼- —
tanks frt alld lb. .11¼ —
99%, dms., c.l., frt. alld lb. .13½- —
l.c.l., frt. alld. lb. .14½- —
tanks, frt. alld lb. .11½- —
synthetic, 85-98%, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
95-98%, dms., c.l., dlvd. lb. .13¼- —
l.c.l., dlvd. lb. .14¼- —
tanks, dlvd lb. .11¼ —
99%, dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd. lb. .14½- —
tanks, dlvd lb. .11½- —

Ethyl acetoacetate, dms., c.l., dlvd. lb. .55 - —
l.c.l., dlvd lb. .56½- —
Acrylate, dms., c.l., and truck load, works lb. .44½- —
less than truckload, works lb. .45½- —
tanks, works lb. .42¾- —
Aminobenzoate, USP (see Benzocaine).
Benzoate, cns., dms. lb. .74 - .90
Bromide, tech., 98%, dms., c.l lb. .41 - —
l.c.l. lb. .43 - —
Butyl ketone, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Butyrate, works lb. .80 - 1.02
Carbamate (see Urethane).
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .69 - .72
smaller lots, works lb. .75 - .81
Chloride, tech., cyl., c.l., works lb. .20 - .22
dms., c.l. same basis lb. .18 - .20
tanks same basis lb. .10 —
USP, bots., cyls lb. .22 - .24
Cinnamate, cns lb. 2.71 - 3.45
Ethanolamines, mixed, dms., c.l., frt. alld. E. Miss lb. .42½- —
l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40½- —
Ether, absolute, ACS, dms lb. .37 - —
anesthesia, UPS, hospitals, 1-lb. cns lb. .89 - —
½-lb. cns lb. .97 - —
¼-lb. cns lb. 1.05 - —
solvent, USP, dms., c.l., dlvd lb. .15¾- —
l.c.l., dlvd lb. .16¾- —
tanks, dlvd lb. .13¾- —

Ethyl ether, syn., dms., c.l., dlvd. E lb. .12 - —
l.c.l., dlvd. E lb. .13 - —
tanks, dlvd. E lb. .10 - —
Gallate, dms., 100 to 2,000-lb. lots lb. 3.90 - 4.40
Iodide, cbys., works lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works lb. .51½- .52
Morphine hydrochloride, USP, bots. oz. 11.85 - —
Nitrite (see Ether nitrous).
Oenanthate, dms. lb. 1.00 - 1.50
Oleate, dms., l.c.l., works lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO dms. works, lb. .54½- —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono. Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Ethylbenzene, 99%, dms., c.l. lb. .19½- .20¼
l.c.l. lb. .20½- .21¼
tanks lb. .18½- —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼- —
l.c.l., same basis lb. .12¼- —
tanks, same basis lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c per lb higher.
Glycol, dms., c.l., dlvd. E lb. .13¼- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .11½- —
Monobutyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E lb. .21 - —
tanks, dlvd E lb. .18½- —

Ethylene, glycol, monoethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E lb. .21 - —
tanks, dlvd E lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd E lb. .19½- —
tanks, dlvd. E lb. .16½- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E lb. .21 - —
tanks, dlvd. E lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .28¾- —
l.c.l., dlvd. E lb. .29¼- —
tanks, dlvd. E lb. .27 - —
Monostearate, triple pressed, dms lb. .34 - —
Oxide, dms., c.l., dlvd lb. .19½- —
l.c.l., dlvd. lb. .22½- —
tanks, dlvd. lb. .13½- —
Trichloride (see Trichloroethane).
Ethylenediamine, 85-88%, dms., c.l., dlvd. E., 100% basis lb. .46 - —
l.c.l., dlvd. E., 100% basis lb. .47 - —
tanks, dlvd. E., 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb. lots lb. 6.75 - 7.30
smaller lots lb. 7.35 - 7.40
Eucalyptol, USP, cns., dms lb 1.40 - 1.50
Eugenol, USP, bots. lb. 2.55 - 3.15
Euphorbia herb, bls. lb. .15 - .17

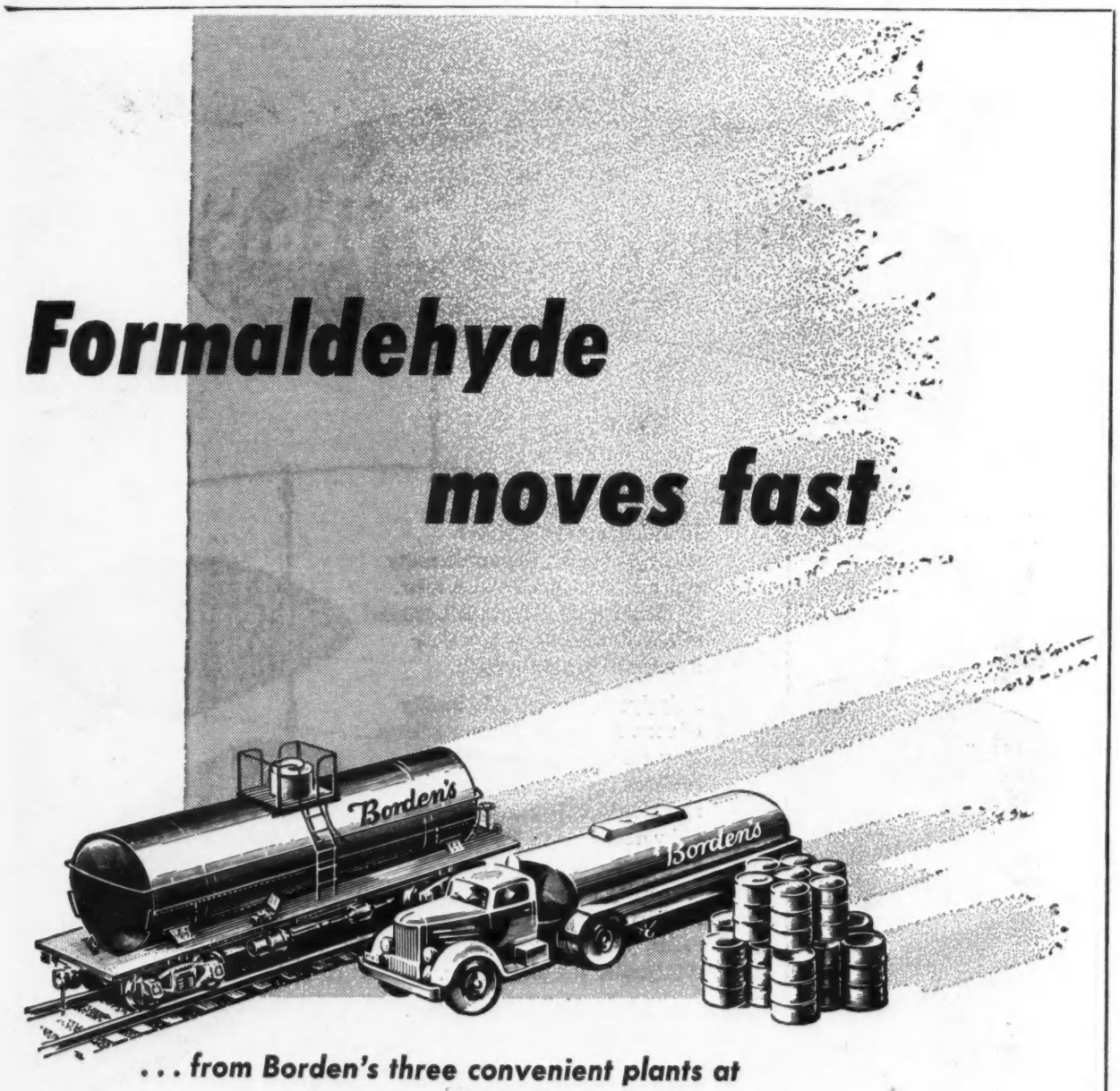
F

Feldspar, enamel, 100 mesh, bgs., works ton 20.00 -22.00
Glass, 20 mesh, bulk, tons, works ton 11.75 -12.50
Pottery bgs ton lots, works ton 20.00 -22.00
bulk, c.l., works ton 18.00 -20.00
Fennel seed, Argentine, bgs lb. .10½- —
Czech, medium, bgs lb. .10½- —
Indian, light, bgs lb. .11 - .11¼
Fenugreek seed, Moroccan, bgs. lb. .06¼- .06½
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
soln., USP IX, cybs lb. .16 - —
djns. lb. .17 - —
Cacodylate, NF, bots lb. 13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 8.00 - —
indust., cryst., bbls., c.l., works, 100 lbs. 4.75 - 5.25
l.c.l., works 100 lbs. 5.75 - 6.25
42° Be, cbys., c.l., works, 100 lbs. 7.25 - 8.25
tanks, frt. equald., 100% basis 100 lbs. 3.25 - —
USP, cryst., dms., works lb. .07½- .09
Citrate, gran., dms lb. .86 - —
Glycerophosphate, NF, powd lb. 4.75 - 4.85
Hydrophosphite, NF, dms lb. 2.80 - —
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate, gran., dms lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6.75% Fe, dms., frt. alld. lb. .26¼- —
Stearate, dms., c.l., frt. alld lb. .37 - —
Sulfate, partially hydrated, bgs., c.l., works ton 31.75 -33.75
l.c.l., works ton 34.75 -40.75
Ferric-ammonium citrate, brown, NF, gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms lb. .25½- .28½
Ferric-potassium, oxalate, fine gran., dms lb. .30½- .33½
Ferric-sodium oxalate, fine gran., dms lb. .25½- .28½
Ferrous gluconate, NF, dms lb. .88 - —
Sulfate, gran., bgs., c.l., works, ton 34.50 - —
l.c.l., dlvd. metropolitan area 100 lbs. 3.35 - 4.25
bbls., c.l., works ton 40.00 - —
bulk, c.l., works ton 27.00 - —
USP, cryst., bbls., dms lb. .09½- .10
Fir balsam, Canada, cns gal. 34.00 -35.00
Oregon, bbls gal. No prices.
Fishliver oil (see Oil fishliver).
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area ton 145.00 Nom.
Fishscrap, menhaden, dried, 60% protein, bags, Balto area ton 140.00 - —
Fluorspar, dom., acid grade, bulk, c.l., mine ton 60.00 - —
ceramic grade, 93-96% CaF_2, grd., bulk, c.l., mine ton 57.50 - —
85-92% CaF_2, grad., bulk, c.l., mine ton 47.00 - —
metallurgical grade, briquets, pellets, 65% CaF_2, bulk, c.l., mine ton 34.00 - —
lump, 59-65% effective CaF_2, bulk, c.l., mine ton 40.00 - —
washed gravel, 59-60% effective, CaF_2, bulk, c.l., mine ton 40.00 - —
60-65% effective CaF_2, bulk, c.l., mine ton 40.00 -41.00
65-70% effective CaF_2, bulk, c.l., mine ton 42.00 - —
70% or better, effective CaF_2, bulk, c.l., mine ton 43.00 - —
Formaldehyde, NF, (inhibited), dms., c.l., Zone 1, dlvd lb. .062 - .064
Zone 2 lb. .065 - —
l.c.l., dlvd lb. .069 - —
tanks, Zone 1, dlvd lb. .0375- .0395
Zone 2, dlvd lb. .0420- —
methanol-free (uninhibited), tanks, Zone 1, dlvd lb. .0345- —
Zone 2, dlvd lb. .0395- —
Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .60 - .61
Fuller's earth, dom., powd., bgs., c.l., Fla., mines ton 21.25 - —
Georgia mines, c.l. ton 17.00 -18.00
Illinois mines, c.l. ton 19.00 - —
Texas mines, c.l. ton 16.00 - —
spent, f.o.b. shipt. pt., c.l. ton 4.50 - 5.00
imported, bgs., c.l. ton 42.00 - —
Furfural, dms., c.l., works lb. .13 - —
l.c.l., works lb. .14 - —
tanks, works lb. .115 - —
Fusel oil, refined, dms., c.l., dlvd lb. .17½- —
l.c.l., dlvd. lb. .18½- —
tanks, dlvd lb. .15 - 15¼
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .47½- —
No. 2, bbls., l.c.l. lb. .45½- —
No. 3, bbls., l.c.l. lb. .43½- —
liquid, No 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls., l.c.l. lb. .21½- —
No. 3, bbls., l.c.l. lb. .19 - —
solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, 100% basis, bbls., frt alld lb. .73 - —
Gammapicoline (see g-Picoline).
Gasoline, tanks, refy., ex tax, Arkansas, 84 octane gal. .11¼- —
Group 3, 84 octane gal. .1075- .11375
Gulf coast, 83 octane gal. .10 - .11¼
N. Y. Harbor, 86 octane gal. .1345- .143
Penn. western US motor 86 octane gal. .1375- .1415
natural, group 3, 26-80 octane gal. .04½- —

Formaldehyde moves fast



. . . from Borden's three convenient plants at

Demopolis, Ala., Bainbridge, N. Y. and Springfield, Ore.

When you want formaldehyde in a hurry, you can count on Borden to find the fastest way to reach your plant. Within 300 miles of a Borden source, deliveries are generally by tank truck. Beyond, tank cars do the job. In any area, drum shipments are available. Dependable and frequent deliveries by Borden save you the trouble and expense of maintaining huge storage tanks . . . yet assure you of a ready supply for uninterrupted operation.

Borden has the type formaldehyde which best fits your needs: economical 44%, inhibited or uninhibited, from Bainbridge and Demopolis; 37% inhibited, also known as "formalin", "U.S.P." or "N.F."; 37% uninhibited, shipped in tank cars or tank trucks; or to your own specifications. Write for quotation: The Borden Company, Chemical Division, Dept. OP -64, 350 Madison Avenue, New York 17, N.Y.

INDUSTRIAL CHEMICALS

THE Borden COMPANY
CHEMICAL DIVISION

FORMALDEHYDE • HEXAMETHYLENETETRAMINE • RESORCIN • CASEIN • Urea-Phenolic-Polyvinyl-Epoxy-RESINS

Gelatin, edible, pure (pork skin), 75 Bloom test, std. bbl., c.l. lb. .37 - —
150 Bloom test, std. bbl., c.l. lb. .68 - —
200 Bloom test, std. bbl., c.l. lb. .74 - —
225 Bloom test, std. bbl., c.l. lb. .77 - —
275 Bloom test, std. bbl., c.l. lb. .84 - —
Gelsemium root, bls lb. .28 - .29
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms lb. 1.90 - 2.20
standard, cns., dms lb. .60 - 1.00
Geranyl acetate, cns lb. 1.45 - 2.20
Ginger, oleoresin, NF, from African root, bots lb. 4.00 - 7.75
from Jamaican root, bls lb. 6.00 - 10.25
Root, African, bls lb. .23 - —
Jamaica, No. 1, bgs lb. .40 - .42
No. 2, bgs lb. .32 - —
No. 3, bgs. lb. .29 - .30
Rhattoon, bgs lb. No prices.
Nigerian, split, bgs lb. .23 - —
Glauber's salt, anhyd see Sodium sulphate)
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd lb. .18 - —
104 jellygrams, same basis lb. .23½ - —
131 jellygrams, same basis lb. .24 - —
164 jellygrams, same basis lb. .24½ - —
191 jellygrams, same basis lb. .25 - —
222 jellygrams, same basis lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .15½ - —
65 jellygrams, same basis lb. .16½ - —
86 jellygrams, same basis lb. .17 - —
115 jellygrams, same basis lb. .17½ - —
135 jellygrams, same basis lb. .18½ - —
164 jellygrams, same basis lb. .19½ - —
renderers' 100 jellygrams, bgs., c.l., dlvd lb. .15 - —
Bone glue, l.c.l., prices 1c. higher, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-121, bgs., c.l., dlvd lb. .20 - —
122-149, bgs., c.l., dlvd lb. .22 - —
150-177, bgs., c.l., dlvd lb. .24 - —
178-206, bgs., c.l., dlvd lb. .26 - —
207-236, bgs., c.l., dlvd lb. .28 - —
237-266, bgs., c.l., dlvd lb. .30 - —
267-298, bgs., c.l., dlvd lb. .32 - —
299-330, bgs., c.l., dlvd lb. .34 - —
331-362, bgs., c.l., dlvd lb. .36 - —
363-394, bgs., c.l., dlvd lb. .37 - —
395-427 bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .39 - —
461-494, bgs., c.l., dlvd lb. .40 - —
493-529, bgs., c.l., dlvd lb. .41 - .42
Hide glue l.c.l. prices 1c. higher.
Glycerine, nat., crude, saponification, 88%, to refineries, tanks, dlvd lb. .23 Nom.
soaplye, 80%, tanks, dlvd lb. .21 Nom.
refined, BP, 98%, dms., c.l., dlvd lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
dynamite, dms., c.l., dlvd lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
high gravity, dms., c.l., dlvd. lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
USP, CP, 95%, dms., c.l., dlvd. lb. .29½ - —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
yellow, distilled, dms., c.l., dlvd. lb. .30 - —
l.c.l., dlvd lb. .30½ - —
syn., dms., c.l., dlvd lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal, 30% dms. c.l works lb. .18½ - —
l.c.l. works lb. .19 - —
tanks works lb. 18 - —
Gold chloride, acid-brown, bots oz. 22.50 - 23.00
acid-yellow, bots oz. 20.00 - 20.50
Golden seal root, NF, tested, bls lb. 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib, dms. ex whse lb. .06 - .09½
crystalline, 85-90%, powd., bgs., fib dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib dms., ex whse lb. 21 - .24½
95-97%, powd., bgs., fib, dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib, dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib dms., ex whse lb. .29 - .31
Grease, brown, tanks, dlvd lb. .05 - —
house, tanks, dlvd lb. .06¼ - —
white, choice, not all hog, tanks, dlvd lb. .09 Nom.
yellow, tanks, dlvd lb. .06½ - —
Green, brilliant, thioflavin, toner, molybdated PMA kgs., works lb. 5.10 - —
tungstated PTMA kgs., works lb. 6.00 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis. lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .43 - —
50%, bbls. same basis lb. .48 - —
reduced color, 25%, bbls., same basis lb. .19 - —
Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., dms., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .39¼ - —
l.c.l., same basis lb. .39¾ - —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works, lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
Grindelia robusta herb, bls lb. .44 - —
Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
liquid, cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45
Gum, aloe (see Aloe).
Arabic, amber, sorts, bgs lb. .19 - —
powdered, USP, bbls lb. .23 - .24
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Gum, cellulose, bgs., 23,000-lb. lots or more, works, frt. alld lb. .60 - —
smaller lots, same basis lb. .62 - —
Copal, Congo, No. 1, bgs lb. .20 - .22
No. 2, bgs. lb. .18 - .19
No. 3, bgs. lb. .16 - .17
Manila, C, bgs lb. .38 - .40
CBB, bgs. lb. .26 - .28
DBB, bgs lb. .23½ - .25
DK, bgs lb. .18 - —
dust, bgs lb. .11 - .13½
soft, MA, bgs lb. .17 - .19
WS, bgs lb. .32 - .36
Philippine, pale, chips, bgs lb. .22 - .24
nubs, bgs lb. .30 - .32
seeds, bgs lb. .15 - .17
sorts, bgs lb. .18 - .20
Ponchonak, chips, bgs lb. .20 - .22
nubs, bgs lb. .34 - .36
Dammar, Batavia, A/E, cs lb. .27 - .29
dust, bgs lb. .16 - .18
E, bgs lb. .20 - .22
East India, batu, bold, bgs. lb. .14 - .15½
nubs and chips, bgs. lb. .03½ - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs lb. .13 - .14
nubs, bgs lb. .18 - .20
Siam, cs lb. .35 - .37
Singapore, No. 1, bgs lb. .39 - .41
No. 2, bbls lb. .29 - —
No. 3, bbls lb. .25 - —
dust, bgs lb. .16½ - .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd. fill., Ind., Ky., Mich., Mid Atl States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .15½ - —
wood-rosin type, dms., c.l., same basis lb. .15 - —
Gum, karaya, NF, powd., No. 1, bbls lb. .38 - —
No. 2, bbls lb. .28 - .29
No. 3, bbls lb. .24 - .25
Locust bean, powd., bgs lb. .31 - .33
Myrrh, cs. lb. .38 - .40
Opium (see O).
Olibanum siftings, cs lb. .15 - .20
tears, cs. lb. .22 - .30
Rosin (see R).
Sterculia (see Gum karaya).
Tragacanth, No. 1, ribbons, cs lb. 2.85 - 2.90
No. 2, cs lb. 2.45 - 2.50
No. 3, cs lb. 1.60 - 1.70
powdered, USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper bags, trucks, dlvd. N Y C ton 20.30 - —
terra alba, domestic, same basis, ton 19.00 - —
works, N. Y. C. ton 16.00 - —
imported, English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton 60.00 - 62.00

H

Hawthorn berries, bgs. lb. .28 - .32
Heliotropin, cryst., cns lb. 3.50 - 4.25
Hellebore root dom green, bls lb. .55 - .65
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 2, bbls. l.c.l. lb. .47 - —
No 2, bbls. l.c.l. lb. .43 - —
No 3, bbls. l.c.l. lb. 41 - —
No 4, bbls. l.c.l. lb. .39 - —
No 5, bbls. l.c.l. lb. .37 - —
paste No 1 bbls. l.c.l. lb. .20½ - —
Henbane leaves, bls lb. .35 - .40
Heptane, industrial, tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾ - —
Borger, Tex gal. .14¾ - —
Hesperidin methylphalcone, bots., works lb. 50.00 - —
Hexachlorophene, dms lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylene tetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½ - —
smaller lots, same basis lb. .41½ - —
Hexamine (see Hexamethylenetetramine).
Hexane industrial, tanks, Bayonne, N. J gal. .19 - —
Baytown Tex gal. .15½ - —
Borger, Tex gal. .15½ - —
1-Hexanol, dms., c.l., works lb. .34½ - —
t.c.l., works lb .35 - —
tanks, works lb .33 - —
Hexyl, cinnamic aldehyde, dms lb. 2.25 - 7.50
Salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd. lb. .14½ - —
l.c.l. dlvd. lb. .15½ - —
tanks, dlvd. lb. .12½ - —
Hexyl methacrylate, normal, dms., less than truckload works. lb. .71 - —
Hexylresorcinol, USP dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd. lb 14.50 - —

since 1941 / Glycerine is the Demulcent

In antiseptics and other pharmaceutical preparations which come in contact with delicate body tissues, demulcent action is often important. Pharmaceutical manufacturers choose U.S.P. Glycerine because it is an excellent demulcent—and because it can contribute other valuable properties too.

Versatile Glycerine can serve not only as a demulcent, but also as a solvent, preservative, plasticizer, lubricant or emollient. Druggists are reported to use Glycerine in one out of four prescriptions and in more than 50% of the liquid medications compounded. In the drug field, as in many others, *nothing takes the place of Glycerine.*

Write for the informative, 16-page booklet, "Why Glycerine for Drugs and Cosmetics?" It describes Glycerine's properties and applications and is yours for the asking from Glycerine Producers' Association, 295 Madison Avenue, New York 17, N. Y.

For 13 years, Glycerite Merthiolate* compounded by Eli Lilly and Company has been used by the medical profession for its excellent antiseptic properties. Physicians recognize its advantages in the irrigation of open wounds, in making wet dressings, and for instillation in body cavities—applications where the demulcent action of this Glycerine-containing specialty is particularly desirable.

*'Merthiolate' (Thimerosal, Lilly)

Nothing takes the place of Glycerine

Histamine Diphosphate—Lime, Hydrated

Histamine diphosphate, USP, bots. kilo 450.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo.80.00 -85.00
1-5 kilo lots, works kilo.90.00 -95.00
Homatropine hydrobromide, USP bots oz 9.35 -10.60
Methylbromide, USP, bots oz. 9.75 -10.60
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 7.25 - —
Horehound herb, bls. lb. .16 - .19
Hydrastine bots oz.29.50 -31.00
Hydrochloride, NF bots oz.29.50 -31.00
Sulfate, bots oz.35.00 -37.00
Hydrastinine 10 grain bots bot 1.95 - —
Hydrastis (see Goldenseal.
Hydrazine, free base, ret. dms., Niagara Falls lb 3.00 - 3.30
Hydrate 100% ret dms Niagara Falls lb 1.75 1.95
85%, ret. dms., same basis lb. 1.35 - 1.55
Hydroturamide dms. fib ctns., works lb. .30 .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride, anhyd., cyls., works lb. .27½- .29
tanks, works lb. .21 - —
Peroxide USP bbls dlvd lb 03¾ .05
35%, cbys., dlvd lb. .226 - —
dms., c.l., dlvd lb. .208 - —
l.c.l., dlvd. lb. .213 - —
tanks, dlvd. lb .201 - —
Hydroquinone photo grade bbls. dms. lb 98 1.00
tech. dms., c.l. frt equald lb 77 —
l.c.l frt equald lb 98 —
Hydroxycitronellal, cns lb. 5.10 - 6.00
Hyoscine salts (see Scopolamine.)
Hyoscyamine, bots oz.15.75 -16.60
Hydrobromide, bots oz.11.00 -12.80
Sulfate, bots oz.10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid No 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —

I

Ichthammol, NF, dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 indigo synthetic).
Indole, CP, bots lb.17.00 -21.00
Inositol, bots., dlvd lb 5.00 - —
dms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.15 - —
resublimed, USP, bots., jars lb. 3.55 - —
Iodochlorohydroxyquinolin, USP, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs lb 4.90 5 00
a-Ionone, cns lb. 3.95 - 8.25
b-Ionone, cns lb. 4.30 -11.25
Methyl (see under M)
Ipecac root, bgs lb. 6.50 - 6.75
powd., bbls., bxs lb. 7.00 - 7.25
Irish moss bleached prime bls lb .30 .35
Iron Compounds (see Ferric or Ferrous).
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .62 - .95
formate dms lb .80 —
Propionate dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, dms lb. .75 - 1.00
solvent grade dms., c.l. dlvd E. of Rockies lb. .13¼- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .11¼- —
Isobutyraldehyde, dms., dlvd lb. .50 - —
Isoeugenol, cns lb. 3.45 - 4.50
Isoniazid, powder, bulk, 25-kilo lots or more kilo.23.00 -31.00
smaller lots kilo.24.00 -32.00
Isopentane, commercial grade, tanks, f.o.b. Tex. refy. gal. .15½- —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12 - —
l.c.l., same basis lb. .13 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd lb. .07 - —
l.c.l., dlvd lb. .08 - —
tanks, dlvd lb. .05 - —
Isopropylamine (see Mono, Di, or Tri-).
Isoquineline, dms., works lb. .65 - 1.25

J

Jalap root, NF, bls lb. .38 - .55
powd., bbls., bxs lb. .49 - .66
Juniper berries, bgs lb. .16 - .18
Tar, NF, dms lb. .42 - .60

K

Kaolin (see also Clay, China).
NF, powd., fib dms lb. .08 - .16¼
colloidal, fib. dms lb. .15 - .15½
Kerosene, tanks, refy., Ark., 42-44 specific gravity, w.w. gal. .093 - —
California, 44-43 s.g., w.w. gal. .136 - .140
Gulf ports, 41-43 s.g., w.w. gal. .09¼- .09¾
N. Y. Harbor, 43-44 s.g., w.w. gal. .105 - —
Okla.-Tex., 41-43 s.g., w.w. gal. .09¼- .10
Penn., Western, 45 s.g., w.w. gal. .1145- .1209
Kola nuts, bgs. lb. .12 - —

L

Lactose, crude, bgs., c.l., works lb. .15 - —
edible, fib. dms., 30,000-lb. lots, works lb. .22 - —
2,000-lb. lots, works lb. .22¾- —
200-1,800-lb. lots, works lb. .23¼- —
Edible lactose in bgs., 1c. lower.
USP, fib. dms., 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb. lots, works lb. .25¼- —
USP lactose in bgs., 1c. lower.
Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .33 - .36
USP, anhydrous, dms., works lb. .30 - .33
hydrous, dms., works lb. .29 - .32
Lard, cash, trcs., Chicago lb. .18½- —
Larkspur seed, bgs lb. .20 - .22
Lauryl chloride, distilled, dms., c.s., works, frt. equald lb. .74 - —
l.c.l. lb. .75 - —
Methacrylate, normal, dms., c.l. or truckload lb. .63½- —
Lavender flowers, medium, bls lb. .55 - .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white, crystals, bbls., gran, bbls lb. .22 - —
powd., bbls. lb. .23 - —
NF, cryst., gran., powd lb. .31 - .33
Arsenate, acid powder, dealers, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
l.c.l., frt. alld lb. .28½- —
1-lb. bgs., c.l. lb. .41½- —
l.c.l. lb. .42½- —
Blue, basic sulfate, bbls., c.l., ship't point, frt. alld lb. .14¾- —
l.c.l., same basis lb. .15¾- —
Carbonate (see Lead, white).
Chloride dms lb. .45 - —
Iodide, NF V jars lb. 3.82 - —
Linoleate, fused, 26.5% dms lb. .20½- —
Metal, pigs, prime, N. Y. lb. .14¼- —
St. Louis lb. .1405- —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .32¾- —
10,000-20,000-lb. lots same basis lb. .33¾- —
2,000-10,000-lb. lots, same basis lb. .34¼- —
200-2,000-lb. lots, same basis. lb. .34¾- —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works, frt. equald lb. .1515- —
l.c.l., same basis lb. .1565- —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .17½- —
24% Pb. dms., dlvd lb. .23¾- —
solid, 37% Pb. dms., dlvd lb. .31¼- —
Nitrate, bbls lb. .22¼- —
Orthosilicate gel., 50% PbO, dms., works lb. .32¾- —
50% PbO dms works lb. .31¼- —
Peroxide, powd., tech., bbls lb. .38¾- .40¼
Phthalate, dibasic, dms., works lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. equald lb. .16¾- —
l.c.l., same basis lb. .17¼- —
97% Pb_3O_4, bbls., c.l., same basis lb. .17 - —
l.c.l., same basis lb. .17½- —
98% Pb_3O_4, bbls., c.l., same basis lb. .17¼- —
l.c.l., same basis lb. .17¾- —
Resinate, precip., dms., dlvd lb. .28½- —
Salicylate, normal, dms., works lb. .46 - —
Sulfate (see Lead, blue, basic sulfate; Lead, white, basic sulfate).
Tallate, liquid, 16% Pb, dms. lb. .16 - —
24% Pb. dms. lb. .21½- —
White, basic carbonate, bgs., c.l., ship't point, frt. alld lb. .16½- —
l.c.l., same basis lb. .17½- —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .15½- .17¾
l.c.l., same basis lb. .16½- .18¾
basic sulfate, bgs., c.l., ship't point, frt. alld lb. .14¾- —
l.c.l., same basis lb. .15¾- —
Lecithin, edible, tech., bleached, non-ret., dms., c.l., works. lb. .15 - .17
l.c.l., same basis lb. .15½- .17½
unbleached, non-ret., dms., c.l., same basis lb. .13 - .15
l.c.l., same basis lb. .14½- .16½
dl-Leucine, dms., works lb.12.25 -15.00
Licorice root, whole, bbls. lb. .08 - .12
gran., bbls. lb. .12 - .17
powd., bbls. lb. .10 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½- —
l.c.l., works lb. .06¾- —
Lime, agricultural, bulk, works ton.14.50 - —
Chemical (quicklime) lump pebble, bulk, Adams, Mass ton.12.50 - —
Annville, Pa ton 11.50 - —
Austin, Texas ton 9.50 - —
Bellefonte, Pa. ton.11.50 - —
Buffalo, N. Y ton.14.00 - —
Cedar Hollow, Pa ton.11.50 - —
Duluth, Minn. ton.12.50 - —
El Paso, Texas ton.14.00 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton 12.50 - —
Hannibal, Mo. ton.10.00 - —
Keystone, Ala ton 10.25 - —
Kimballton, Va. ton.10.25 - —
Knoxville, Tenn ton.10.50 - —
Lee, Mass ton 12.50 - —
Lewisburg, Ohio ton.10.00 - —
Limedale, Ark ton.10.80 - —
Los Angeles, Cal ton.25.10 -26.84
Marble Cliff, Ohio ton.10.00 - —
Martinsburg, W. Va. ton.11.00 - —
Mosher, Mo. ton.10.75 - —
Nelson, Ariz. ton.14.50 -23.65
Quincy, Ill ton 10.00 -13.00
Reddick, Fla ton 13.50 - —
Scotrock, Ala. ton.10.25 - —
Springfield, Mo. ton.12.25 - —
Winooski, Vt ton 15.50 - —
Woodville, Ohio ton.11.50 - —
York, Pa ton.15.50 - —
Hydrated, paper bags, Adams, Mass ton.15.50 - —
Annville, Pa ton.14.50 - —
Austin, Texas ton.13.00 - —
Bellefonte, Pa ton.14.50 - —
Buffalo, N. Y ton.16.00 - —
Cedar Hollow, Pa ton.14.50 - —
Chicago, Ill ton.15.00 - —
Duluth, Minn ton.14.00 - —
El Paso, Texas ton.17.50 - —
Engle, W. Va ton.14.50 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton.16.50 - —
Hannibal, Mo. ton.12.00 - —
Keystone, Ala ton.13.50 - —
Kimballton, Va ton.13.50 - —
Knoxville, Tenn ton.13.00 - —
Lee, Mass ton.15.50 - —
Lewisburg, Ohio ton.14.00 - —
Limedale, Ark. ton.12.00 - —

Take it from the test panels

Dutch Boy Basic Silicate White Lead* —— **"45X"** ——→

has what it takes to make foolproof exterior paints

For foolproof exterior paints... "lead."

"No question about that," most paint makers will tell you.

"And for 'lead' at its economical best," many of the leaders add, "it's 'Dutch Boy' Basic Silicate White Lead '45X'."

They know what they're talking about, too. They've not only seen the proof in their own exterior paints... in a lot fewer complaints, for one thing. They've also seen it at National Lead's Sayville Test Station, where exposure tests of many different pigments have been conducted for many years.

In white House Paints, "Dutch Boy" Basic Silicate White Lead "45X" improves self-cleaning properties, these tests prove.

In tinted House Paints, it increases film durability and resistance to color changes.

In Primers, "45X" contributes greater adhesion, plus the water resistance to maintain the paint film's adhesive bond.

In Porch and Floor Enamels, it plasticizes the film, increases abrasion resistance, and improves adhesion.

All these things adaptable "45X" does even though you use fewer pounds than with other white lead types. That's because the reactive portion of each "45X" pigment particle is concentrated at the surface: thus, making available proportionately larger amounts of "lead."

Improve your exterior paints — yet save money. Standardize on "Dutch Boy" Basic Silicate White Lead "45X" in your formulations.

National Lead Company: New York 6; Atlanta; Buffalo 3; Chicago 8; Cincinnati 3; Cleveland 13; Dallas 2; Philadelphia 25; Pittsburgh 12; St. Louis 1; San Francisco 10; Boston 6 (National Lead Co. of Mass.). *Reg. U. S. Pat. Off.

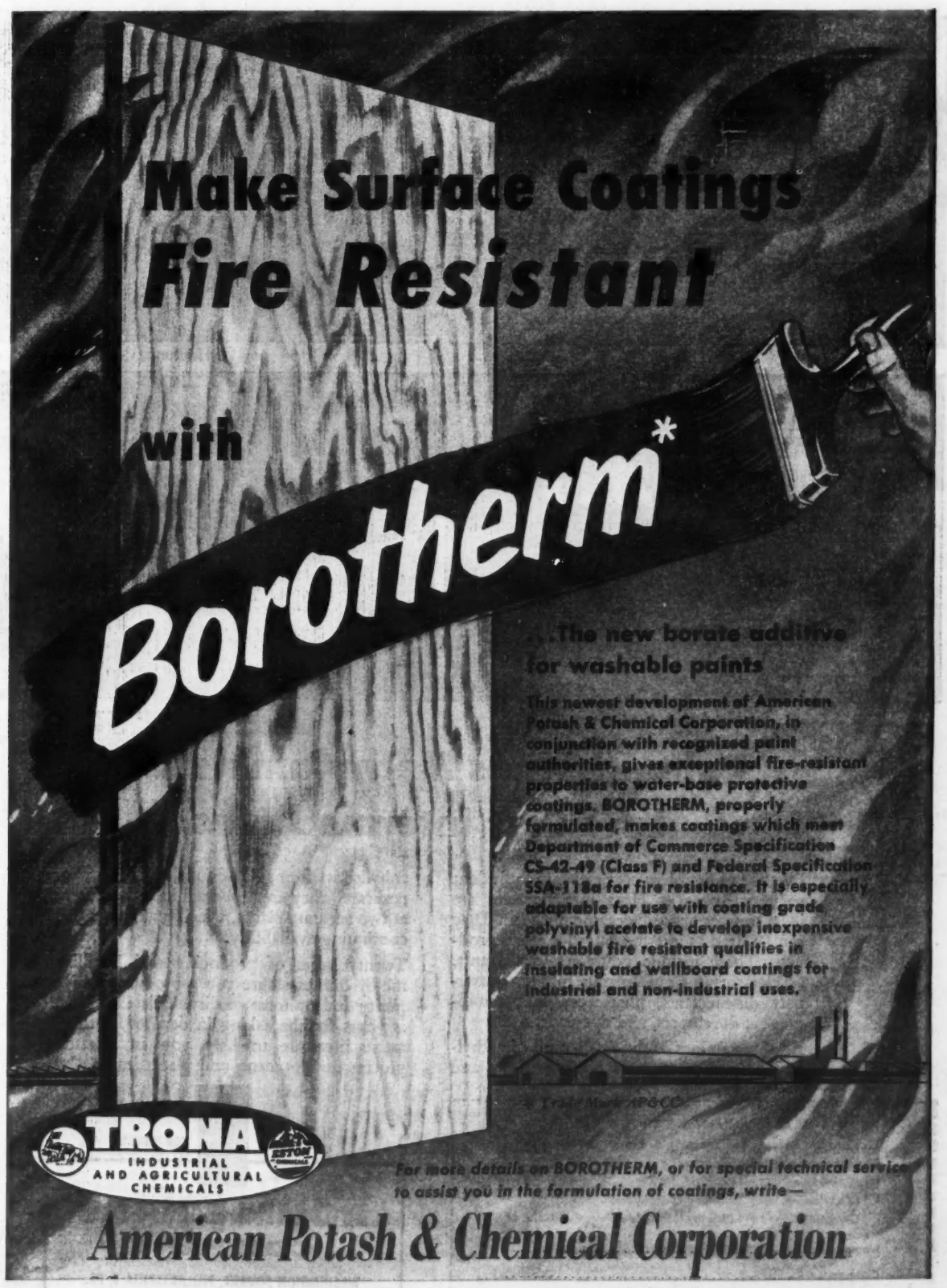
Lime, hydrated, paper bags, Marble Cliff, Ohio	ton	13.50	—
McNeil, Tex	ton	13.00	—
Meneminee, Mich.	ton	14.00	—
Mosher, Mo.	ton	13.00	—
North Tazewell, Va.	ton	12.75	—
Quincy, Ill.	ton	10.00	-12.00
Reddick, Fla	ton	16.00	—
Scotrock, Ala	ton	13.50	—
Springfield, Mo.	ton	12.25	—
Winooski, Vt	ton	15.50	—
Woodville, Ohio	ton	14.50	—
York, Pa	ton	14.50	—
Spray, paper bgs., Adams, Mass.	ton	17.00	—
Annville, Pa	ton	17.00	—
Austin, Texas	ton	13.00	—
Bellefonte, Pa	ton	17.50	—
Carey, Ohio	ton	11.00	—
Duluth, Minn.	ton	15.00	—
Engle, W. Va.	ton	14.50	—
Farnams, Mass	ton	14.00	—
Gibsonburg, Ohio	ton	16.50	—
Keystone, Ala	ton	13.50	—
Kimballton, Va	ton	13.50	—
Lee, Mass	ton	17.00	—
Lewisburg, Ohio	ton	16.50	—
Marble Cliff, Ohio	ton	16.00	—
McNeil, Tex.	ton	16.00	—
Meneminee, Mich.	ton	14.00	—
Mosher, Mo.	ton	13.00	—
North Tazewell, Va.	ton	12.75	—
Reddick, Fla.	ton	16.00	—
Rockland, Me.	ton	10.00	—
Springfield, Mo.	ton	12.25	—
Scotrock, Ala.	ton	13.50	—
Lime, spray, paper bags, Winooski, Vt.	ton	17.00	—
Woodville, Ohio	ton	16.50	—
York, Pa	ton	15.50	—
Lime salts (see Calcium).			
Lime-ammonia nitrogen 20.5% N (see Ammonium nitrate with dolomite).			
Limestone, grd., bgs., works	ton.	3.50	- 4.00
Linalool, ex bois de rose oil, dms.	lb.	5.95	- 6.70
ex lignaloe wood oil, dms	lb.	5.30	- 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms	lb.	5.35	- 6.25
96-98%, dms	lb.	6.75	- 7.15
ex petitgrain, bots	lb.	3.90	- 5.25
Lindane, 25% formulation, dealers, dms., works	lb.	1.58	—
dms., works	lb.	2.10	—
99%, tech., dealers, dms., dlvd.,	lb.	3.10	—
Linden flowers with leaves, bls.	lb.	.34	- .35
without leaves, bls	lb.	.40	- .41
Linseed meal, expeller 32-34% bulk, Midwest, mills	ton.	71.00	-72.00
extracted, 36%, bulk, same basis.	ton.	66.50	—
Litharge, com'l powd., bbls., c.l., works, frt. equald.	lb.	.15¾-	—
l.c.l., same basis	lb.	.16¼-	—
Lithium benzoate dms	lb.	1.65	1.67
Bromide, NF, bbls., works, frt. equald	lb.	2.10	2.75
Carbonate, tech., c.l., dlvd	lb.	1.00	—
Chloride, cryst., dms	lb.	1.22	- 1.28
Citrate, NF, bbls., dms., kgs	lb.	1.60	- 1.64
Fluoride, bbls., 10,000-lb. lots	lb.	2.15	—
ton lots	lb.	2.20	—
less ton lots	lb.	2.25	—
Hydride, powd., dms., works	lb.	12.00	-14.00
Hydroxide, monohydrate, ton lots, dms	lb.	1.10	—
Salicylate, dms	lb.	1.60	- 1.70
Lithopone, ordinary, bgs., c.l., dlvd.	lb.	.07½-	—
l.c.l., dlvd.	lb.	.08¼-	.08½
Titanated (high-strength), bgs., c.l., dlvd	lb.	.10	—
l.c.l., dlvd	lb.	.11	—
Litnopone prices, Pacific Coast, 1c. per lb. higher.			
Lobelia herb, bls	lb.	.43	—
Lobeline sulfate, bots., works	oz.	29.50	-33.50
Logwood extract, crystals, No. 1, bbls., l.c.l	lb.	.41	—
No. 2, bbls., l.c.l	lb.	.39	—
liquid, No. 1, bbls., c.l.	lb.	.20	—
No. 2, bbls., l.c.l.	lb.	.19	—
No. 3, bbls., l.c.l.	lb.	.18½-	—
solid, No. 1	lb.	.35	—
Lycopodium, cs	lb.	1.50	—
dl-Lysine hydrochloride, bots	kilo.	145.00	-140.00

M

Mace, Siauw, No. 1, bls	lb.	1.33	- 1.35
West Indian, No. 1, bls	lb.	1.30	—
Magnesia, calcined, tech., ctns. works	lb.	.32	.34¼
synth., rubber grade, light bgs., works	lb.	.23	.25
extra light, works	lb.	.31	—
USP, light, ctns	lb.	.34	.36
heavy, bbls.	lb.	.36	.38
Magnesite, chemical grade, calcined powd., bgs., c.l., works, frt. equald	ton	82.50	—
dead burnt, standard grain, bulk, c.l., Chewalah, Wash	ton.	38.00	—
Magnesium bromide, jars	lb.	.90	- 1.00
Carbonate, tech., bgs., c.l., frt. equald	lb.	.09½-	—
l.c.l., frt. alld	lb.	.10½-	—
bbls., c.l., frt. equald	lb.	.10¾-	—
l.c.l., frt. alld	lb.	.11¾-	—
kgs, c.l., frt. equald	lb.	.12	—
USP, bgs., c.l., frt. equald.	lb.	.11¼-	—
l.c.l., frt. alld	lb.	.12¼-	—
bbls., c.l., frt. equald	lb.	.11¾-	—
l.c.l., frt. alld	lb.	.12¾-	—
kgs., c.l., frt. equald	lb.	.13	—
l.c.l., frt. alld	lb.	.14	—
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.			
Chloride, anhyd., 95-98%, lump, dms., c.l., works, frt. equald	lb.	.12¾-	—
l.c.l., same basis	lb.	.14	- .15
powd., bgs., c.l., works	ton.	50.00	—
l.c.l., works	ton.	55.00	-105.00
hydrous, flake, bgs., c.l., works,	ton.	50.00	—
l.c.l., bgs	ton.	55.00	-105.00
Gluconate, dms., cns	lb.	1.30	- 1.37
Glycerophosphate, dms., works	lb.	5.40	- 5.50
Hydroxide, NF, medicinals, bbls., dms., kgs	lb.	25¼-	.30
Hypophosphite, dms	lb.	1.60	—
Metal, 99.8% ingots, cs., works	lb.	.27	—
sticks, cs., works, frt. alld. on carlots	lb.	.46	- .48
Oxide (see Magnesia, calcined).			
Peroxide, 15%, dms., works	lb.	1.00	- 1.05
Phosphate, tribasic, NF, bbls.	lb.	.75	—
Silicate (see Talc).			
Silicofluoride, bbls., works	lb.	.09	- .10
Magnesium sulfate, tech., bgs., c.l., works	100 lbs.	2.15	—
l.c.l., works	100 lbs.	2.90	- 3.15
USP, cryst., bgs., c.l., works, 100 lbs.	100 lbs.	2.35	—
l.c.l., 5,000 lbs., 1 with-drawal	100 lbs.	3.10	—
smaller lots	100 lbs.	3.35	—
Trisilicate, USP, dms., 5,000-lb. lots	lb.	.38	—
1,000-lb. lots	lb.	.40	—
100-lb. lots	lb.	.45	—
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.			
Malathion, dms., works	lb.	1.05	—
Maleic anhydride, dms., c.l., dlvd. E	lb.	.27	—
l.c.l., dlvd. E	lb.	.28	—
Prices on maleic anhydride W of Rockies, 1½c. higher.			
Mandrake root, bls	lb.	.32	- .34
Manganese acetate, bbls., dlvd.	lb.	.35	—
Arsenate, bgs	lb.	.16	—
Borate, tech., bbls	lb.	.24	—
Carbonate, bbls., works	lb.	.22	—
Chloride, anhyd., dms., works	lb.	.25½-	—
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works.	ton.	88.00	—
paper-lined burlap bgs., works	ton.	91.50	—
dms., works	ton.	94.00	—
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.			
Gluconate, dms	lb.	1.79	- 1.93
Glycerophosphate, NF, fib dms	lb.	4.70	- 4.80
Hydrate, bbls., dlvd.	lb.	.36	—
Hypophosphite, NF, dms	lb.	2.00	—
Linoleate, liquid, 4.35% Mn., dms.	lb.	.30½-	—
solid, precip, 8.2% Mn., bbls	lb.	.33½-	—
Metal, cs., dlvd. East	lb.	.30	- .32
Naphthenate, liquid 6% Mn., dms., frt. alld	lb.	.27	—
Resinate, fused, 3½% Mn., dms.	lb.	21¾-	—
precip., dms	lb.	24½-	—
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E.	ton.	80.50	—
l.c.l., dlvd. S. E.	ton.	87.50	—
Tallate, 6%, dms	lb.	.24¼-	—
Mangrove bark, E. African, 38% tannin, c.l., ex dock	ton.	69.00	—
So. American, 30% tannin, c.l. ex dock	ton.	55.00	-58.00
Mannitol, com'l, dms., works	lb.	.40	- .43
Melamine, bgs., ton lots, works	lb.	.33	—
500 to 2,000-lb. lots, works	lb.	.33½-	—
smaller lots, works	lb.	.38½-	—
Menadione, USP, bots.	gram.	.06	- .06½
Menthol, natural, USP, Brazilian, cs.,	lb.	5.60	- 5.75
Japanese, cs	lb.	11.00	—
synthetic, USP, racemic, cns	lb.	4.95	—
Menthyl salicylate, tins	lb.	4.00	- 4.25
2-Mercaptobenzothiazole, bgs., fib, dms., ton lots, works, frt. alld	lb.	.38	—
less ton lots, same basis	lb.	.40	—
Mercaptobenzothiazyl disulfide, bgs., fib, dms., ton-lots, works, frt. alld	lb.	.48	—
less ton lots, same basis	lb.	.50	—
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more	lb.	4.58	—
gran. or powd., dms., 50-lb. lots or more	lb.	4.38	—
Cyanide, NF VIII, powd., fib. dms.	lb.	6.34	- 6.39
Iodide, red, NF, fib. dms	lb.	7.27	—
yellow, NF, fib. dms	lb.	7.52	—
Oxide, red, NF, powd., fib. dms.	lb.	5.42	- 5.46
yellow, tech. (see Yellow, mercury oxide).			
USP, fib. dms	lb.	5.64	—
Mercurous chloride (see Calomel).			
Mercury, ammoniated (see White precipitate USP).			
Metal, 76 lbs. per flask, net flask		265.00-271.00	
Mesityl oxide, dms., c.l., dlvd	lb.	.1350-	—
l.c.l., dlvd.	lb.	.1450-	—
tanks, dlvd.	lb.	.1150-	—
Meta-aminophenol (see m-Aminophenol).			
Metachloroaniline (see m-Chloroaniline)			
Metanitroaniline (see m-Nitroaniline)			
Metanitroparatoluidine (see m-Nitro-p-toluidine).			

Lime, Hydrated—dl-Methionine

Metaphenylenediamine (see m-Phenylenediamine)			
Metatoluidine (see m-Toluidine)			
Metatolylenediamine (see 2,4-tolylenediamine).			
Methanol, natural, denaturing grade, dms c.l. frt alld	gal.	78	—
l.c.l., frt. alld	gal.	79	—
tanks, frt. alld	gal.	70	—
Prices on natural methanol W of Miss. 3c. higher			
synthetic, Zone 1, dms., c.l., dlvd., or truckload min., frt. alld.	gal.	.42	—
l.c.l., same basis	gal.	.44	—
tankwagon, 2-4,000 gals., dvld., metropolitan areas	gal.	.30	—
tanks, dlvd., or 4,000 gal. min., frt. alld	gal.	.27	—
4,000 gal. min., frt. equald., with Camden, N. J.	gal.	.25½-	—
Zone 2, dms., c.l., or truckload min., frt. alld or dvld	gal.	.47	—
l.c.l., same basis	gal.	.53	—
tankwagon, 2-4,000 gals. min., dlvd. metropolitan areas	gal.	.33	—
tanks, 4,000 gal. min., frt. alld. or dlvd	gal.	.32	—
Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.			
Methenamine (see Hexamethylenetretramine).			
dl-Methionine, fib. dms., frt. alld., 50-lb. or more	lb.	4.55	—
feed grade, 98% fib. dms. same basis	lb.	3.00	—
97%, fib dms same basis	lb.	2.97	—


Make Surface Coatings
Fire Resistant
with
Borotherm*
...The new borate additive for washable paints
This newest development of American Potash & Chemical Corporation, in conjunction with recognized paint authorities, gives exceptional fire-resistant properties to water-base protective coatings. BOROTHERM, properly formulated, makes coatings which meet Department of Commerce Specification CS-42-49 (Class F) and Federal Specification SSA-118a for fire resistance. It is especially adaptable for use with coating grade polyvinyl acetate to develop inexpensive washable fire resistant qualities in insulating and wallboard coatings for industrial and non-industrial uses.
* Trade Mark APCC
TRONA
INDUSTRIAL AND AGRICULTURAL CHEMICALS
For more details on BOROTHERM, or for special technical service to assist you in the formulation of coatings, write—
American Potash & Chemical Corporation
Offices • 3030 West Sixth Street, Los Angeles 54, California • 122 East 42nd Street, New York 17, New York • 214 Walton Building, Atlanta 3, Georgia.
Plants • Trona and Los Angeles, California.

Methoxychlor—Nickel Sulfate

Methoxychlor, 50% wettable powder, dealers, dms. cs., frt. alld. lb. .81 • .84
Methyl abietate, non-ref. dms., c.l., dlvd. zone 1...lb. .20½- —
l.c.l., same basis.....lb. .21 • —
hydrogenated, non-ref., dms., c.l., dlvd., zone 1....lb. .21 • —
l.c.l., same basis.....lb. .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E. gal. .57 • —
l.c.l., frt. alld. E.....gal. .63 • —
tanks, frt. alld E.....gal. .45 • —

Synthetic methyl acetone E. territory in all States East of and including Colo., Mont., N. Mex. and Wyo. West territory in all States West of those four.

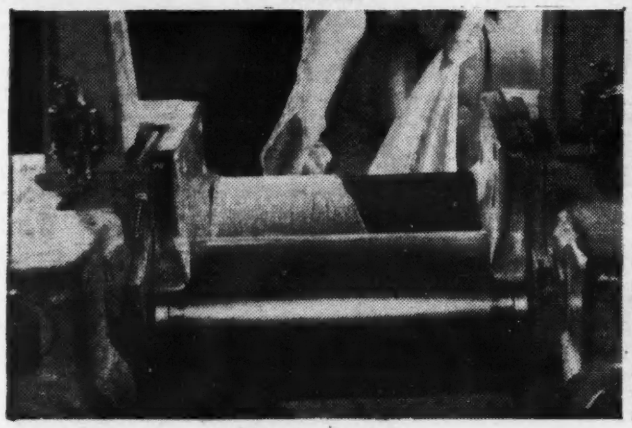
Acrylate, dms., c.l., and truckload, works..lb. .44½- —
less than truckload, works..lb. .45½- —
tanks, works.....lb. .42¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E. lb. .15 • —
l.c.l., dlvd. E.....lb. .16 • —
tanks, dlvd. E.....lb. .13 • —
Ketone, dms., works.....lb. 1.05 • —
Anthranilate, cns.....lb. 2.50 • 2.65
Benzoate, cns., dms.....lb. .53 • .65
Bromide, jobbers, cyls., various sizes, works lb. .47 • .61
Methyl cellulose, special, vis. (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .79 • —
2,000-lb. lots and more, same basis..lb. .85 • —
smaller lots, frt. alld. on 100 lbs..lb. .89 • 1.00
standard vs. (15,400 cps.), 50-lb. bgs., c.l., alld..lb. .66 • —
2,000-lb. lots and more, same basis..lb. .72 • —
smaller lots, frt. alld. on 100 lbs..lb. .75 • .85
Chloride, indust., cyls., frt. equald. lb. .21 • —
tanks, multi-unit, same basis. lb. .15 • —
single unit, same basis...lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .40 • .42
other consumers or service men, cyls., dlvd lb. .57 • —
Cinnamate, cns.....lb. 1.43 • 1.80
Cyclohexanol, dms., c.l., works..lb. .35½- —
l.c.l., works.....lb. .36 • —
tanks, works.....lb. .34 • —
Ethyl ketone, dms., c.l., dlvd..lb. .13 • —
l.c.l., dlvd.....lb. .14 • —
tanks, dlvd.....lb. .11 • —
Formate, refd., dms.....lb. .35 • .40
tech., non-ref. dms., any quantity, works lb. .06 • —
tanks, works.....lb. .07 • —
Heptin carbonate, bots.....lb. 33.00 • 42.00
p-Hydroxybenzoate, fib. dms....lb. 1.90 • 2.00
Ionone, standard, cns., dms....lb. 3.80 • 4.65
Isobutyl carbinol, dms., c.l., dlvd..lb. .15 • —
l.c.l., dlvd.....lb. .16 • —
tanks, dlvd.....lb. .13 • —
Methyl isobutyl ketone, dms., c.l., dlvd..lb. .15 • —
l.c.l., dlvd.....lb. .16 • —
tanks, dlvd.....lb. .13 • —
Lactate, dms., l.c.l., works....lb. .35 • —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J...lb. .36½- —
smaller lots, same basis..lb. .37 • —
tanks, same basis.....lb. .35 • —
Naphthyl ketone, cryst., cns..lb. 3.60 • 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline chloride, NF, fib. dms. lb. 5.44 • —
Salicylate, USP, cns., 50 lb. lots.lb. .58 • —
dms.....lb. .53 • —
Testosterone, USP, 100 gram bots. gram. .79 • —
2-Methyl-5-ethyl pyridine, dms., c.l., works..lb. .47½- —
l.c.l., works.....lb. .48 • —
tanks, works.....lb. .46 • —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted.....lb. 3.25 • 3.60
smaller lots, same basis...lb. 3.40 • 3.60
Chloride, industrial, dms., c.l., dlvd. E..lb. .13½- —
Methylionone, A, cns.....lb. 6.55 • 8.80
D, cns.....lb. 7.50 • 9.55
prime, cns.....lb. 4.55 • 6.40
standard, dms., cns.....lb. 3.80 • 4.65
b-Methylnaphthalene, 32°C m.p., dms., works...lb. .90 • —
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methyl-pyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works..lb. .04¼- —
roofing, 20 to 80 mesh, works.lb. .03 • .04
wet-grd., biotite, bgs., c.l., works, frt. alld., E. lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E. lb. .07 • —
paint, or lacq., bgs., c.l., works, frt. alld. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E. lb. .07½- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08¼- —
white, extra fine, bgs., c.l., works, frt. alld. E. lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E. lb. .08½- —
Mica, wet-grd. W. of Miss R. ½c. higher. W. of Rockies, 1c. higher.
Milk powder, non-fat, roller, bgs., c.l...lb. .12 • .1535
spray, bgs., c.l.....lb. .14 • .1610
whole, roller, bgs., c.l.....lb. No prices.
spray, bgs., c.l.....lb. .27 • .31
Sugar (see Lactose).
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans..gal. .10½- .11
New York.....gal. .12 • —
Molybdenum metal, 98% Mo powd., kgs. lb 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.40 • —
technical, kgs., works, basis Mo content lb 1.15 • —
Monobutylamine, dms., c.l., E. of Rockies..lb. .55 • —
l.c.l., same basis.....lb. .56 • —
tanks, same basis.....lb .53 • —
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E lb. .11½- —
l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .10 • —
Monochlorobenzene prices in the West, 1¼c higher.
Monoethanolamine, dms., c.l., dlvd. E. lb. .26¾- —
l.c.l., same basis.....lb. .27¾- —
tanks, same basis.....lb. .25 • —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E. lb. .33 • —
l.c.l., dlvd. E.....lb. .34 • —
tanks, dlvd. E.....lb. .31 • —
Monoethylaniline (see N-Ethylaniline).
Monoethylortnotoluidum (see N-Ethyl-o-toluidine).
Monoisopropylamine, dms., c.l., dlvd. lb. .30½- —
l.c.l., same basis.....lb. .31½- —
tanks, same basis.....lb. .28½- —
Monomethylamine, 25%-40% dms., c.l., frt. equald., 100% basis. lb. .37 • —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .31 • —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Morphine, cns.....oz. 12.40 -12.60
Acetate, anhyd., cns.....oz 9.95 -10.00
Hydrobromide, cns.....oz 9.90 9.95
Hydrochloride, NF, cns.....oz 9.90 9.95
Sulfate, USP, cns.....oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd. E lb. .54¾- —
l.c.l., dlvd. E.....lb. .55¾- —
tanks, dlvd. E.....lb. .52¾- —
Musk, natural, Tonquin grains, bots. oz. No stocks.
synthetic, ambrette, 100-lb. lots, fib. dms lb. 5.15 • —
25-lb. lots, cns.....lb. 5.20 • —
5-lb. lots, cns.....lb. 5.30 • —
ketone, 100-lb. lots, fib. dms..lb. 5.30 • —
25-lb. lots, cns.....lb. 5.35 • —
5-lb. lots, cns.....lb. 5.45 • —
xylol, 100-lb. lots, fib. dms..lb. 1.40 • —
25-lb. lots, cns.....lb. 1.45 • —
5-lb. lots, cns.....lb. 1.50 • —
Mustard seed, Danish, yellow, bgs.lb. .11 • .11½
Dutch, yellow, bgs.....lb. .11 • .11½
English, yellow, bgs.....lb. .12 • .12½
Montana, Oriental, bgs.....lb. .09½- —
yellow, bgs.....lb. .12 • —
Myrobalans, J-1, assorted, bgs., ex dock..ton. 47.00 -48.50
crushed, bgs., ex dock.....ton. 63.00 -64.00
ordinary, bgs., ex dock.....ton. 43.00 -44.00
extract, Indian, solid, 53% tannin, ex dock, plus duty...lb. .07¼- —

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see 5).
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .045 • —
78°, dms., c.l., same basis..lb. .059 • —
l.c.l., same basis.....lb. .0615- —
tanks, same basis.....lb. .05 • —
imported, 78°, large lots.....lb. .04½- .04¾
refined, industrial, dom., chipped or crushed, bgs., frt. equald...lb. .10¼- —
flake, bgs., same basis..lb. .11½- —
tanks, same basis.....lb. .09¾- —
balls, flakes, wholesalers, jobbers,, bbls., c.l., same basis. lb. .13¾- —
cs., 50 l-a., c.l., same basis. lb. .14 • —
1-lb. pkgs. c.l., same basis..lb. .16¼- —
a-Naphthol, bbls., frt. alld.....lb. 1.00 • —
b-Naphthol, resublimed, dms., works. lb. .75½- —
tech., bbls., c.l., works.....lb. .32½- —
l.c.l., works.....lb. .34½- —
Benzoate, fib. dms., works.....lb. 3.00 • —
custom contract, works....lb. 1.65 • —
Salicylate, dms.....lb. 5.00 • —
Sulfate, cns.....lb. 35.00 • —
a-Naphthylamine, bbls., frt. alld. lb .50 • —
b-Naphthylamine, tech., bbls., works. lb. 1.05 • 1.10
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 • 8.00
Neomycin, fib. dms., 100-kilo lots, basis, activity .gram. .60 • —
1-kilo lots, basis, activity .gram. 1.20 • —
Nerolin, cns.....lb. 2.55 • 2.65
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd.....lb. .79 • .83¼
Carbonate, bbls., dlvd.....lb. .71 • .75
Chloride, bbls., dlvd.....lb. .37 • .45
Formate, bbls., ton lots, frt alld. lb. .64 • .65
Metal, electro cathodes, cs. works..lb. .60 • —
Nitrate, bbls., works.....lb. .36 • .37
Oxide, black, bbls.....lb. .69 • —
Sulfate, bgs., c.l., dlvd.....lb. .29 • —
l.c.l., dlvd.....lb. .30½- .31

Pesticides

Surfactants


Rubber Accelerators

Disinfectants

Rohm & Haas Methylamines... Low Cost Intermediates

Because of their low cost and low equivalent weight, Rohm & Haas methylamines are ideal sources of basic organic nitrogen. They can be used as intermediates for many products. These include pesticides, surfactants, accelerators for vulcanizing rubber, quaternary disinfectants, pharmaceuticals, photographic developers, and dyestuffs.

All three amines—mono-, di-, and trimethylamine—are shipped in both aqueous and anhydrous form, in drums, cylinders, or tankcars. They are produced in large volume at two separate plants, which guarantees you continuing availability.

Twenty years of producing and handling methylamines assure you a product of high purity and uniform quality. This experience is yours for the asking in detailed, authoritative literature to help you in research, process development, and plant design.

ROHM & HAAS COMPANY
Washington Square, Philadelphia 5, Pa.
Please send me technical data on:
☐ Methylamines ☐ PRIMENE JM-T ☐ PRIMENE 81-T
☐ t-Octylamine ☐ Acetone cyanohydrin
☐ Glycolonitrile ☐ Dimethylformamide
Name.....
Company.....
Address.....
City.....State.....

CHEMICALS FOR INDUSTRY
ROHM & HAAS COMPANY
WASHINGTON SQUARE, PHILADELPHIA 5, PA.
Representatives in principal foreign countries

PRIMENE is a trade-mark, Reg. U.S. Pat. Off. and in principal foreign countries.

Nicotinamide, USP, dms., frt. adjusted..kilo.12.00 -12.30
Hydrochloride, dms., frt. adjusted. kilo.11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld.....lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld..lb. 1.03 - —
Niger seed, bgs.....lb. .14½- .15
Nikethamide, cbys.....lb. 7.50 - 8.00
m-Nitroaniline, dms., frt. alld..lb. 1.05 - —
o-Nitroaniline, flaked, dms.....lb. .54 - .57
powd., dms.....lb. .60 - —
p-Nitroaniline, dms., c.l., frt. alld. lb. .50½- —
l.c.l., frt. alld.....lb. .53½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld..lb. .12 - —
l.c.l., frt. alld.....lb. .13 - —
tanks, frt alld.....lb. .11 - —
o-Nitrobiphenyl, tech., dms., c.l., works..lb. .14½- —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works..lb. .34 - —
l.c.l., same basis.....lb. .35 - .37
18-25 cps., bbls., c.l.....lb. .36 - —
l.c.l., same basis.....lb. .37 - .39
250-400, 600-1,000 secs., bbls., same basis..lb. .39 - —
l.c.l., same basis..lb. .40 - .42
Spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., same basis..lb. .41 - —
l.c.l., same basis.....lb. .42 - .44
5-6, 40-60 secs., bbls., c.l., same basis..lb. .40 - —
l.c.l., same basis..lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

2-Nitro-4-chlorobenzene, dms.....lb. .20 - .21
4-Nitro-2-chlorobenzene, dms.....lb. .26 - .27
2-Nitro-4-chlorophenol, dms.....lb. .75 - —
Nitroethane dms. dlvd. E. of Rockies. lb. .25 - —
Nitrogen solution, tanks, frt. equald, 37-40.8% N, 100% basis..ton.128.00 - —
Nitrogenous process tankage, bulk, works..unit-ton. 3.65 - 4.40
Sewage sludge, bulk, works unit-ton. 3.75 + .50
Nitromethane, dms., l.c.l., dlvd E. of Rockies..lb. .25 - —
a-Nitronaphthalene, bbls, frt, alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies..lb. .23¼- —
2, dms., dlvd. E. of Rockies...lb. .25 - —
l.c.l., works.....lb. .24¾- —
tanks, works.....lb. .22¾- —
o-Nitrophenol, dms., works, frt. equald..lb. .94 - —
p-Nitrophenol, dms., works, frt. equald..lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld.lb. .10 - —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09 - —
p-Nitrotoluene, dms., works.....lb. .33 - .38
m-Nitro-p-toluidine, dms.....lb. 1.59 - —
Nitrous ether, conc., bots..100-lb. lots lb. 1.28 - 1.33
Nonyl phenol, dms., c.l., works, frt. alld..lb. .30 - .30¾
l.c.l., works.....lb. .30½- .31¾
tanks, works.....lb. .29 - —
Nutgalls, Aleppo, bgs.....lb. .38 - —
Chinese, bgs.....lb. .45 Nom.
Nutmeg, East Indian, whole, bgs.lb. .41 - —
shrivels, bgs.....lb. .39 - —
West Indian, bgs.....lb. .30½- —
Nux vomica, ols.....lb. .10 - .12
powdered, bbls., bxs.....lb. .15 - .17

O

Octane, industrial, tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex.....gal. .15¾- —
Borger, Tex.....gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd..lb. .35 - —
l.c.l. dlvd.....lb. .37 - —
tanks dlvd.....lb. .32½- —
Octyl phenol, dms., c.l., works..lb. .23¾- —
l.c.l., works.....lb. .24¾- —
tanks, works.....lb. .22¾- —

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns.....lb. 2.05 - 2.55
Almond, artificial, bitter (see Benzaldehyde).
natural, bitter, F.F.A., bots...lb. 3.00 - 3.40
NF, bots.....lb. 3.25 - 3.75
sweet, USP, dms., cns.....lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms.....lb. 1.40 - 1.85
Angelica root, bots.....lb.66.00 -100.00
seed, bots.....lb.56.00 -95.00
Aniline (see A).
Anise, USP, dms.....lb. 3.25 - 3.75
Apricot, kernel, USP, dms....lb. .45 - .50
Avocado, cns.....lb. 3.25 - —
Babassu, crude, tanks.....lb. No stocks.
Bay, NF Puerto Rican, 50-55%, cns lb. 1.45 - 1.90
55-60%, cns.....lb. 1.60 - 2.10
West Indian, 50-55%, cns., dms. lb. 1.45 - 2.25
Bergamot, nat., NF, Italian, cns. lb.10.75 -13.00
Birchtar, crude, cns.....lb. 1.75 - 1.90
rectified, NF, cns.....lb. 2.00 - —
Bois de Rose, Brazil, dms....lb. 3.95 - 4.25
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....lb. .65 - .70
Cajeput, native, cns.....lb. 2.00 - —
redist., USP, cns.....lb. 2.50 - 3.00
Calamus, bots.....lb.12.00 -20.00
Camphor, sassafrassy, dms....lb. .35 - .45
white, dms.....lb. .31 - .35
Cananga, native, cns.....lb. 7.85 -16.25
rectified, cns.....lb.12.50 -13.75
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 2.80 - 3.45
Cardamom, NF, bots.....lb.41.00 -50.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l.....lb. .20 - —
l.c.l.....lb. .2150- —
dehydrated, bodied, dms., c.l..lb. .2260- —
l.c.l.....lb. .2310- —
tanks.....lb. .2160- —
unbodied, dms., c.l.....lb. .2110- —
l.c.l.....lb. .2160- —
tanks.....lb. .2010- —
hydrogenated, bgs., l.c.l.....lb. .2350- .2450
No. 3, tech., dms., c.l.....lb. .1775- —
l.c.l.....lb. .1825- —
tanks.....lb. .1675- —
No. 1, Brazilian, tanks.....lb. .1550- —
sulfonated, 50%, dms., l.c.l..lb. .13½- .14
75%, dms., l.c.l.....lb. .17 - .17½
USP, dms., c.l.....lb. .1800- —
l.c.l.....lb. .1850- —
tanks.....lb. .1700- —
refined and deodorized, dms., c.l..lb. .1950- —
l.c.l.....lb. .20 - —
tanks.....lb. .1850- —
Cedarleaf, cns., dms.....lb. 2.25 - 3.00
Cedarwood, cns., dms.....lb. .75 - .90
Celery seed, bots.....lb.15.00 -21.00
Chamomile, blue, Hungarian bots. lb.185.00-280.00
Chaulmoogra, NF, cns., dms...lb. .55 - .70
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb.30.50 -34.25
leaf, cns.....lb. 1.25 - 3.25
USP, cns., dms., (Cassia)....lb. No stocks.
Citronella, Ceylon, cns., dms..lb. .80 - 1.00
Java, true, dms.....lb. .80 - .90
Java-type, cns.....lb. .90 - 1.15
Clove, USP, cns., dms.....lb. 3.75 - 4.50
Coconut, crude, tanks, N. Y...lb. .14 - —
Pac. Coast.....lb. .13 - —
refined, Cochin type, tax incl. ret. dms., l.c.l..lb. .21¾- —
deodorized, tax incl. non-ret. dms., c.l..lb. .24½- —
Cod, Newfoundland, dms.....lb. .10½- —
Codliver, USP, dms.....gal. 1.55 - 1.65
Copaiba, cns.....lb. 1.80 - 2.50
Coriander, USP, bots.....lb.15.25 -20.00
Corn, crude, tanks, works.....lb. .14¾- .15
foots (soapstock), acid 95%, tanks, N. Y..lb. .07⅝- —
refined, salad, dms.....lb. .19¾- .20
tanks.....lb. .18½- —
Costus, bots.....oz. 9.00 - —
Cottonseed, crude, tanks, South-East..lb. .14⅝- .14¾
Valley.....lb. .14⅝- .14½
Texas.....lb. .14½- —
foots (soapstock), acid 95%, tanks, N. Y..lb. .04 - —
raw, 50%, tanks, same basis. lb. .02 - —
refined, salad, dms.....lb. .19½- .19¾
tanks.....lb. .18 - —
Creosote (see Creosote, coaltar).
Croton, cns.....lb. 2.95 - 4.00
Crude (see Petroleum, crude).
Cubeb, cns.....lb. 4.50 - 6.00
Cumin, bots., cns.....lb. 4.15 - 4.30
Cypress, bots.....lb. 5.30 - —
Degras (see D).
Dillseed, bots.....lb. 2.80 - 4.25
Oil, dillweed, dom., bots., dms..lb. 4.30 - 5.30
Dip (see D)
Erigeron, cns.....lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms..lb. .90 - .93
80-90%, dms.....lb. .75 - 1.25
Fennel, sweet, USP, cns.....lb. 2.30 - 3.25
Fir, Canada, cns.....lb. 2.35 - 2.80
Fish, refined, alkali, dms.....lb. .1400- .1500
kettle-bodied, dms.....lb. .1580- .1600
light-pressed, dms.....lb. .1250- .1350
tanks.....lb. .1100- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gm., dms..1,000,000 units. .09 - .10
25,000 to 35,000 A units per gm., dms..1,000,000 units. .09 - .10
40,000 to 55,000 A units per gm., dms..1,000,000 units .10½- .11
100,000 A units per gm., dms..1,000,000 units. .12 - .14
200,000 A units per gm., dms..1,000,000 units. .12 - .14
300,000 A units per gm., dms. 1,000,000 units. .12 - .14½
400,000 A units per gm., dms..1,000,000 units. .12 - .14½
500,000 A units per gm., dms..1,000,000 units. .12 - .14½

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots.....oz. 6.00 - 9.50
Gaultheria (see Oil, wintergreen).

Oil, geranium, Algerian, cns.....lb. 9.00 -12.00
Bourbon, cns.....lb.10.50 -13.50
Turkish (see Oil palmarosa)
Ginger, dist., bots.....lb. 9.85 -13.50
Grapefruit, dms.....lb. 2.60 - 3.25
Grease, No. 1, dms.....lb. .13½- .14¼
exta, winter, strained, dms..lb. .17½- .18
prime, burning, dms.....lb. .18½- .19
Guaiacwood, cns.....lb. 1.40 - 1.90
Hemlock, cns.....lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb 3.60 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns.....lb. .85 - —
Lard (see Oil, grease).
Laurel leaf, dms., cns.....lb 9.75 -12.50
Lavandin, dms., cns.....lb. 2.00 - 2.35
Lavender, flower, USP, French, 30-32% ester, cns.....lb 2.50 4.50
38-40% ester, cns.....lb. 5.60 - 7.25
40-42% ester, cns.....lb. 4.75 - 6.90
Spike, Spanish, cns.....lb. 1.50 - 2.00
Lemon, USP, Calif., cns., dms..lb. 6.35 - 6.50
Messina, cns.....lb. 6.05 - 8.50
terpeneless bots.....lb.32 00 -35 00
Lemongrass, cns., dms.....lb. 1.30 - 2.00
Lignaloe wood, Mex., cns.....lb. 3.90 - 4.50
Lime, distilled, Mexican, cns lb. 5.25 - 6.50
West Indian, cns.....lb. 5.40 - 7.25
expressed, West Indian, cns lb. 7.75 - 8.50
terpeneless, bots lb.29 50 -100 00
Linseed, raw, dms., c.l., N. Y..lb. .1775- —
l.c.l.....lb. .1825- .1850
tankcar, f.o.b. Minneapolis. lb. .1500- —
New York.....lb. .1625- —
tankwagon, New York.....lb. .1655- —
Boiled linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms.....lb. 3.00 - 4.25

Exchange Brand is the 4-to-1 favorite over all other lemon oils *combined!*

Year after year, Exchange Brand *quality* proves itself in sales. That's because Exchange Lemon Oil comes only from California lemons grown and skillfully processed by Sunkist Growers.

When a little lemon oil goes so far, why risk buying anything but the best?

Sunkist Growers

PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA

Produced by
Exchange Lemon Products Co. • Corona, California

Distributed in the U.S. exclusively by
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N. Y.

Exchange
OIL OF LEMON U.S.P.

Oil, Mandarin—Paraffin

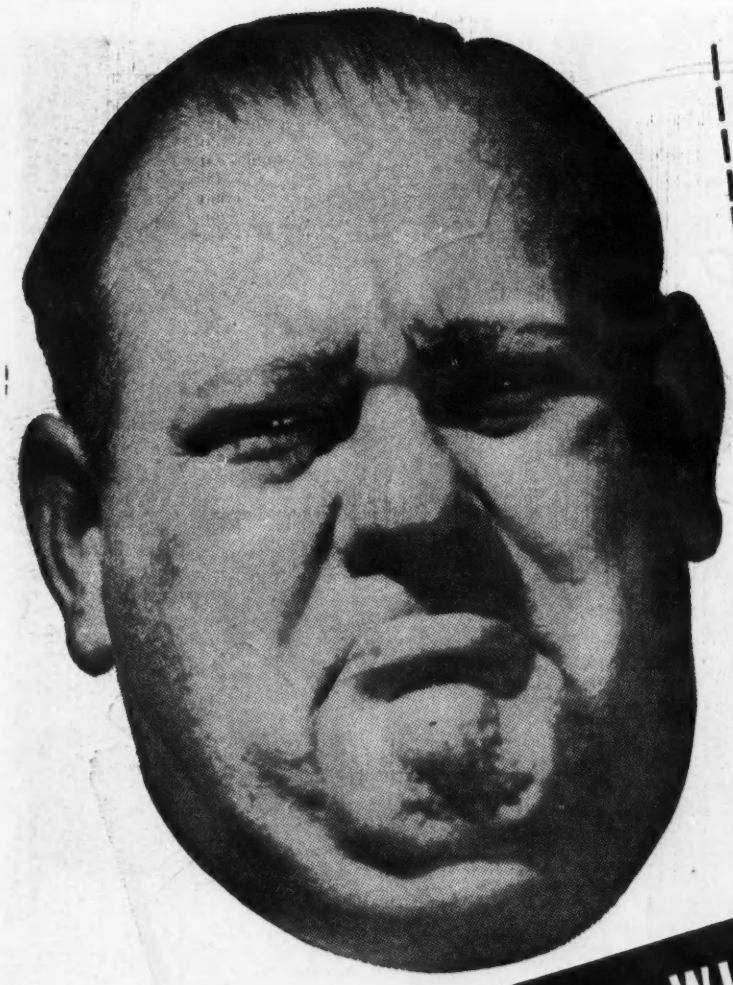
Oil, mandarin, Floridian, dms.	lb.	2.75	- 5.35
Italian, cns	lb.	6.25	- 8.50
Menhaden, crude, tanks, Atlantic Coast	lb.	.07	- —
Gulf ports	lb.	.07¼	Nom.
Mineral, white (see Oil, white mineral).			
Mirbane (see Nitrobenzene).			
Mustard seed, nat., dms	lb.	.18	Nom.
synthetic, cans, dms	lb.	1.60	- 1.85
Neatsfoot, 15° cold test, dms.	lb.	.33	- .34
20° cold test, dms.	lb.	.32	- .33
30° cold test, dms.	lb.	.30	.31
Neroli, NF, French, bots	lb.	85.00	-200.00
Spanish, bots	lb.	35.00	-85.00
Nutmeg, USP, dist., East Indian, cns., dms	lb	2.85	- 3.65
West Indian cns. dms	lb	2.60	- 3.65
Ocotea, cymbarum, dms	lb.	.90	- 1.30
Oiticica, liq., dms	lb.	.18½	- .19
tanks	lb.	.17¼	- .17½
Oleo, extra, dms	lb.	.19¾	Nom.
Onobrom, bots	lb	5.50	7.65
extra, bots	lb	8.00	—
Olive, edible, dms., duty paid	gal.	2.15	- 2.25
Orange, sweet, dist., cns	lb.	.40	.80
expressed, USP, Brazilian, cns., dms	lb	No stocks.	
Calif., cns., dms	lb.	.70	- 1.25
Florida, cns., dms	lb.	.64	- 1.25
Messina, cns	lb	3.85	- 5.85
West Indian, cns., dms	lb	2.50	- 3.65
sesquiterpeneless, bots	lb.	65.00	-120.00
Origanum, Spanish, cns	lb.	1.95	2.85
Palm, clarified, dms	lb.	.1240-	.1250
kernel, tankcars, duty paid	lb.	.13¼	Nom.
Palmarosa, cns.	lb.	7.00	- 9.00
Paraffin, pale, 100-110 vis., at 100°F tanks, East Coast refinery	gal	14	—
Patchouli, dms.	lb.	8.00	- 9.25
Oil, peach kernel, USP (see Oil apricot kernel).			
Peanut, crude, tanks, f.o.b. mills	lb.	.17	- —
refined, dms	lb.	.22¼-	.22½
tanks	lb.	.20¾-	—
Pennyroyal, USP, imported, cns.	lb.	1.60	- 2.40
Peppermint, natural, dms	lb.	5.60	- 6.40
redist., USP, dms	lb.	5.95	- 7.00
Persic, USP (see Oil, apricot kernel).			
Petitgrain, South American, cns., dms	lb.	3.00	- 3.50
Pimento, berry, NF, dms	lb.	4.00	- 5.60
leaf, cns.	lb.	2.35	- 2.75
Pine, dest-dist., dms., l.c.l., works	lb.	.11¼-	—
ex-whse.	lb.	.13¼-	—
steam dist., dms., ex whse., N.Y.C.	lb.	.151	- —
Pineneedle Siberian (see Oil, abies siberica).			
Rapeseed, tankcars	lb.	.17	- —
Red (see Acid, oleic).			
Rice bran, clarif., dms.	lb.	.17	Nom.
tanks, dlvd. E	lb.	No stocks	
Rose, natural, Bulgarian, bots	oz.	43.50	-62.25
Rosemary, Spanish, USP, cns., dms	lb.	.65	- .90
tech., cns., dms	lb.	.50	- .70
Rue, bots	lb.	1.65	- 2.30
Safflower dms. c.l. Atlantic coast.	lb.	.18½-	—
tanks, same basis	lb.	.17	- —
Sage, clary bots	lb	20.00	-25.00
Dalmatian, cns	lb.	5.85	- 7.25
Spanish, cns	lb.	.90	- 1.25
Sandalwood, NF, cns	lb.	9.75	-11.75
Sardine, crude, tanks, Pac. coast.	lb.	No stocks.	
Sassafras, artificial, dms	lb.	.85	- 1.19
natural Brazilian (See Oil, ocotea cymbarum)			
domestic, USP, cns., dms	lb.	1.65	- 2.20
Oil, savin, cns.	lb.	2.75	- —
Savory, cns	lb.	4.25	- —
Sesame, refd., dms	lb.	.36	- .37
Shingle stain, tar distillate, dms., c.l., works	lb.	.33	- —
l.c.l., works	lb.	.35	- —
tanks, works	lb.	.23	- —
Snakeroot, Canada, cns	lb.	29.50	-31.00
Soybean, crude, tanks, Decatur.	lb.	.14½-	—
foots (soapstock), acid, 95%			
tanks, N. Y.	lb.	.08	- —
raw, 50%, tanks, N. Y.	lb.	.04	- —
refined, alkali, dms	lb.	.18¼-	.18½
tanks	lb.	.16¾-	—
clarified, alkali, dms	lb.	.17¾-	.18
tanks	lb.	.16¼-	—
salad, dms.	lb.	.18⅝-	.19
tanks	lb.	.16⅜-	—
Spearmint, USP, dms	lb.	5.40	- 6.30
Sperm, bleached winter, 45°, dms.	lb.	.15¾-	.16½
tankcars	lb.	.14	- —
natural winter, 45°, dms	lb.	.1475-	.1550
tankcars	lb.	.1300-	—
Spruce, cns., dms	lb.	2.10	- 2.75
Sweet birch, USP, Northern, cns.	lb.	4.25	- 9.50
Southern, cns	lb.	2.50	- 3.00
Tall, crude, tanks, works	ton.	40.00	- —
refined, dms., c.l., works	lb.	.06¼-	—
l.c.l., works	lb.	.06½-	.07
tanks, works	lb.	.05	- .05½
Tallow, acidless, dms	lb.	.11¾-	.12¼
Tansy, dms.	lb.	7.75	- 9.00
Tar, pine, com'l. dms., extra, c.l., works	gal.	.42½-	—
l.c.l., works	gal.	.50½-	—
whse.	lb.	.0678-	—
tanks, works	gal.	.33¼-	—
rectified, NF, dms. incl., l.c.l., works, South	gal.	.90	- —
whse., N.Y.C.	gal.	1.00	- —
Tar acid (see P)			
Oil, theobroma (see Cocoa butter).			
Thyme, NF, red, cns., dms.	lb.	1.70	- 3.75
white, cns.	lb	1.95	- 4.00
tech., white, cns	lb.	.40	- 1.85
Tung, dms., c.l., N. Y.	lb.	.24	- —
l.c.l., same basis	lb.	.24½-	.25
tanks, N. Y.	lb.	.22½-	—
domestic mills	lb.	.23½	Nom.
Turkey red (see Oil, castor, sulphonated).			
Turpentine, NF, cns., dms	lb.	.80	- .45
Vetiver, Bourbon, cns	lb.	14.00	-17.50
Haitian, cns	lb.	11.80	-21.00
Java, cns.	lb.	22.50	-40.00
Wheat germ, 5-gal. dms	gal.	10.00	-13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b., N. Y.	gal.	.51½-	.54½
65-75 vis., non-ret., dms., c.l., same basis	gal.	.52½-	.55
l.c.l., same basis	gal.	.57½-	.58½
80-90 vis., non-ret., dms., c.l., same basis	gal.	.53½-	.56½
l.c.l., same basis	gal.	.58½-	.59½
125-135 vis., non-ret., dms., c.l., same basis	gal.	.59½-	.62½
l.c.l., same basis	gal.	.64½-	.65½
145-155 vis., non-ret., dms., c.l., same basis	gal.	.66	- .68½
l.c.l., same basis	gal.	.71	- .71½
175-185 vis., non-ret., dms., c.l., same basis	gal.	.69½-	.73
l.c.l., same basis	gal.	.74½-	.75
USP, 200-210 vis., non-ret. dms., c.l., same basis	gal.	.73½-	.75
l.c.l., same basis	gal.	.77½-	.78
345-355 vis., non-ret., dms., c.l., same basis	gal.	.77	- .80
l.c.l., same basis	gal.	.83	- .85
Wintergreen, USP, nat., Northern, cns.	lb.	6.35	-10.30
Southern, cns	lb	3.20	-19.50
synthetic (see Methyl salicylate).			
Wood (see Oil, tung).			
Wormseed, cns.	lb.	6.75	- 8.00
Wormwood, cns.	lb.	5.50	- 6.85
Ylang-ylang, Bourbon, bots	lb.	17.00	-30.00
extra, bots	lb.	28.00	-40.00
Madagascar bots	lb	No stocks.	
Oleostearine, bbls.	lb.	.15¼-	—
Opium, USP, cns	lb.	19.20	-19.45
gran., USP, cns	lb.	21.65	-21.90
powd., USP cns	lb.	21.65	-21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies	lb.	1.56	- —
Chrome, CP., bbls., dlvd. N of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.31	- —
Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.			
Dinitroanilin toner	lb.	1.30	- —
Mineral, American, bbls, l.c.l., works	lb.	.1960-	.1985
Molybdated, bbls.	lb.	.44	- —
Orthonitroanilin toner, kgs.	lb.	1.15	- —
Orange peel, bitter, Haitian, bls.	lb.	.14	- .16
sweet, bls	lb.	.16	- .18
Orris root, Florentine, bls.	lb.	.35	- .40
Verona, bls	lb.	.29	- .31
powdered, bbls., bxs	lb.	.35	- .40
Orthoaminobiphenyl (see o-Aminobiphenyl).			
Orthoanisidin (see o-Anisidine).			
Orthochloroanilin (see o-Chloroaniline).			
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).			
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).			
Orthochlorophenol (see o-Chlorophenol).			
Orthocresol (see o-Cresol).			
Orthodichlorobenzene (see o-Dichlorobenzene).			
Orthonitroanilin (see o-Nitroaniline).			
Orthonitrochlorobenzene (see 2-Nitro-4-chlorobenzene).			
Orthonitrobiphenyl (see o-Nitrobiphenyl).			
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).			
Orthonitrophenol (see o-Nitrophenol).			
Orthonitrotoluene (see o-Nitrotoluene).			
Orthophenetidin (see o-Phenetidine).			
Orthophenetidin (see o-Phenetidine).			
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).			
Orthotolidin (see o-Tolidine base).			
Orthotoluidin (see o-Toluidine).			
Osage orange, crystals, No. 1, bbls., l.c.l	lb.	.40	- —
extract, liquid, No. 1, bbls., l.c.l	lb.	.19	- —
Ouabain, USP, bots	gram	3.00	- 4.00
Ox bile, extract, powdered, USP 5-lb. lots or more, ctns.	lb.	6.00	- —
not extract, powdered, 5-lb. lots or more, ctns.	lb.	4.35	- —
Oxyquinolin sulfate, cns., 100-lb. lots, works	lb.	4.75	- 5.00
smaller lots, works	lb.	4.92	- 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more	lb.	5.75	- —
Pancreatin, USP bots	lb.	2.50	- 3.00
Papain, USP, African, bots	lb.	4.00	- 4.50
Ceylon	lb.	3.00	- 3.50
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots	oz.	5.00	- —
smaller lots	oz.	5.05	- 5.20
Sulfate, cns.	oz.	7.10	- 7.35
Paprika, Roumanian, bgs.	lb.	.30	- .33
Spanish, bgs.	lb.	.37	- .39
Yugoslavian, bgs.	lb.	.38	- —
Para-anisidin (see p-Anisidine).			
Para-acetylaminobenzaldehyde thiosemicarbazone (see p-Acetylaminobenzaldehyde thiosemicarbazone).			
Para-aminophenol (see p-Aminophenol).			
Parachloroanilin (see p-Chloroaniline).			
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).			
Parachloro-orthonitroanilin (see 4-Chloro-2-nitroaniline).			
Parachlorophenol (see p-Chlorophenol).			
Paracresol (see p-Cresol).			
Paradibromobenzene (see p-Dibromobenzene).			
Paradichlorobenzene (see p-Dichlorobenzene).			
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y.	lb.	.0710-	—
fully refined, 122°-124°F, ASTM, slabs loose, c.l., ref'y.	lb.	.0845-	—
125°-127°F, ASTM, slabs loose, c.l., ref'y.	lb.	.0845-	—
130°-132°F., ASTM, slabs loose, c.l., ref'y.	lb.	.0855-	—
132°-134°, ASTM, slabs, loose, c.l., ref'y.	lb.	.0855-	—
135°-137°F., ASTM, slabs loose, c.l., ref'y.	lb.	.0855-	—

Prices for paraffin in bags and ctns., c.l. 7/10¢ per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.

AMP temperatures are an arbitrary 3° F. higher than ASTM.



"...they know..."

"WHEN IT SMELLS BETTER—IT WILL SELL BETTER!"

THAT applies to your product whether it be . . PAINT • TEXTILES • WAXES • PAPER & BOARD • LAUNDRY STARCH • PRINTING INKS • DISINFECTANTS • FEATHERS • FUR • PLASTICS • COTTON BATTING • CLEANING FLUIDS & NAPHTHAS • LUBRICATING OIL & GREASE • LINOLEUM • LATEX • LEATHER • VARNISHES & LACQUERS • TEXTILE FINISHING OILS • INSECTICIDES • RUBBER GLUES • PASTES • CUTTING OILS and many others

Felton chemists, with a wealth of research and experience in Industrial Aromatics and Deodorizing Agents, can supply you with the perfect reodorants or neutralizers for your products. All you have to do is *send us a sample of what you make*—so that we can make careful, individualized study of your requirements.

AROMATIC CHEMICALS • DEODORIZING CHEMICALS • PERFUME OILS • ESSENTIAL OILS

FELTON CHEMICAL COMPANY, INC.
599 Johnson Ave., Brooklyn 6, N. Y.
BRANCHES IN • BOSTON • PHILADELPHIA • LOS ANGELES ST. LOUIS • DALLAS • CHICAGO • MONTREAL • TORONTO

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld. lb. .10¾ - —
l.c.l., frt. alld. lb. .12¼ - —
powd., bgs., c.l., frt. alld. lb. .15½ - —
l.c.l., frt. alld. lb. .17 - —
USP X, fib. dms., c.l. lb. .183 - —
10,000-lb. lots lb. .193 - —
1,000-lb. lots lb. .193 - —
smaller lots lb. .208 - —

Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .13¼ - —
l.c.l., works lb. .14½ - —
tanks, works lb. .11½ - —

Paranitroanilin (see p-Nitroaniline).

Paranitrochlorobenzene (see 4-Nitro-2-chlorobenzene).

Paranitrophenol (see p-Nitrophenol).

Paranitrotoluene (see p-Nitrotoluene).

Paraphenetidin (see p-Phenetidine).

Paraphenylenediamine (see p-Phenylenediamine).

Paraphenylphenol (see p-Phenylphenol).

Para-tertiary-amylphenol (see p-tert-Amylphenol).

Para-tertiary butylphenol (see p-tert-Butylphenol).

Parathion, spray powder, 15%, dealers, dms., works lb. .48 - .49
tech., dms., works lb. 1.62 - 1.64

Paratoluenesulphonamide (see p-Toluenesulfonamide).

Paratoluidine (see p-Toluidine).

Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over lb. .36 - .40
l.c.l., same basis lb. .37 - .53

Passion flower herb, bls. lb. .21 - .23

Peanut meal, 45%, old process, bgs., mills ton. 84.00 - —
solvent process, bgs., same basis ton. 82.00 - —

Pectin, citrous, NF, powd. bbls lb. 2.05 - 2.06
tech. powd bbls lb. 1.50 - —
imported, Danish, ex whse lb. 1.28 - —

Penicillin, crystalline, potassium, sterile bulk, 1,000,000 units .08½ - .09
Procaine, bulk, 1,000,000 units .08½ - .09
Sodium, sterile, bulk, 1,000,000 units .08½ - .09

Pentachlorophenol, dms., c.l., works, frt equald to lb. .21 - —
l.c.l., same basis lb. .24 - 29
truckload, 20,000 lbs. min. same basis lb. .21¼ - —

Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).

Pentane, industrial, tanks, Tex. refy gal. .14½ - —

Pepper, black, Malabar, spot, bgs lb. .55 - —
red, Gondar, spot bgs lb. .24 - .25
Japanese, hontaka, bgs lb. .35½ - .36
birdseyes, bgs., new crop lb. .56 - —
Mombasa, bgs., ship't lb. .60 - —
Nigerian, bgs. lb. .28 - —
Turkish, bgs lb. .24 - .25
Zanzibar, bgs. lb. .55 Nom.
white, bgs. lb. .70 - —

Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imported, bls. lb. 1.25 - —

Pepsin, NF, 1:3,000 bulk lb. 3.75 - 3.90

Perchloroethylene dms c.l. or truckloads, frt. alld. lb. .11¾ - —
dlvd. E. lb. .11½ - —
l.c.l., dlvd. ex whse lb. .13½ - —
dlvd. E lb. .13½ - —

Peru balsam, dms lb. 1.40 - 1.75

Petrolatum, amber, dms., c.l., refy. lb. .05 - .05¾
l.c.l., dlvd lb. .06¾ - .07
tanks, refy lb. .03¼ - .04⅛
cream, dms., c.l., ref'y lb. .06⅛ - .07⅛
l.c.l., dlvd lb. .08⅛ - .08¾
tanks, refy lb. .04⅜ - .05⅜
extra, amber, dms., c.l., refy lb. .05¼ - .05⅞
l.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03½ - .04⅜
USP, white, lily, dms., c.l., ref'y. lb. .06⅜ - .07½
l.c.l., dlvd lb. .08⅞ - .09⅛
tanks, refy lb. .04⅞ - .06
snow, dms., c.l., ref'y lb. .07⅛ - .07¾
l.c.l., dlvd lb. .09⅜ - .09⅝
tanks, refy lb. .03⅜ - .05⅞
soft, dms., c.l., refy lb. .06¾ - .07¾
l.c.l., dlvd lb. .08½ - .08¾
tanks, refy lb. .05 - .05⅞
yellow, soft, dms., c.l., refy lb. .05¼ - .05⅞
l.c.l., dlvd lb. .06⅞ - .07⅛
tanks, refy lb. .03½ - .05⅞

Petroleum, crude, bulk, at wells, California bbl. 1.42 - 3.53
Illinois bbl. 2.69 - 2.02
Kentucky bbl. 2.62 - 3.02
Louisiana-Arkansas bbl. 2.33 - 3.23
Montana bbl. 1.53 - 2.90
Oklahoma-Kansas bbl. 2.48 - 2.90
Penna. grade bbl. 3.26 - —
Texas, East bbl. 2.90 - —
Gulf Coast bbl. 2.63 - 3.23
North, North-Central bbl. 2.48 - 2.90
Panhandle bbl. 2.48 - 2.90
West bbl. 2.35 - 2.90
Wyoming bbl. 1.53 - 2.90

fuel oil, bunker C, No. 6, East Coast, Baltimore, Md. bbl. 2.25 - —
Boston, Mass. bbl. 2.29 - —
Charleston, S. C. bbl. 2.20 - —
Jacksonville, Fla. bbl. 2.18 - —
New York Harbor bbl. 2.25 - —
Norfolk, Va. bbl. 2.23 - —
Philadelphia, Pa. bbl. 2.20 - 2.22
Portland, Me. bbl. 2.29 - —
Providence, R. I. bbl. 2.26 - —
Savannah, Ga. bbl. 2.20 - —
West Coast bbl. 1.80 - 2.13

diesel, tanks, ref'y, California gal. .1025 - .133
New York gal. .096 - —
Penna., western gal. .1075 - .11

furnace, tanks, ref'y, Arkansas, No. 2 gal. .08625 - —
No. 3 gal. .0825 - —
N. Y. Harbor, No. 2 gal. .095 - —
Group 3, No. 1 gal. .08375 - —
No. 2 gal. .0775 - .08375
No. 3 gal. .07875 - .08125
range gal. .08875 - .09375
Pennsylvania, western, No. 1 gal. .109 - .1185
No. 2 gal. .105 - .111
No. 3 gal. .105 - .1075

Lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles gal. .168 - .183
East coast, N. J., N. Y. gal. .19 - —
Group 3, benzol-type gal. .14125 - —
toluol-type gal. .13125 - —

Mineral spirits, regular tanks, California, ex tax, San Francisco gal. .163 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875 - —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .19 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
specially refd., tanks, refy., Watson, Calif. gal. .244 - —
Borger, Tex. gal. .24 - —
Houston, Tex. gal. .24 - —
Wood River, Ill. gal. .2625 - —

Petroleum, mineral spirits, specially refd., tank transport, dlvd. N. J. gal. .33 - —
dlvd. N. Y. gal. .33½ - —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd gal. .37 - —

Naphtha, cleaners, tanks, East Coast, N. J., and N. Y. gal. .17 - —
Group 3 gal. .12875 - —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —

High solvency (see Petroleum solvent, partial aromatic).

V.M.&P., 225°-300°F., b.r., tanks, West Coast, Los Angeles. gal. .168 - —
Portland, Ore. gal. .174 - —
San Francisco gal. .173 - —
Seattle, Wash. gal. .174 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875 - —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —

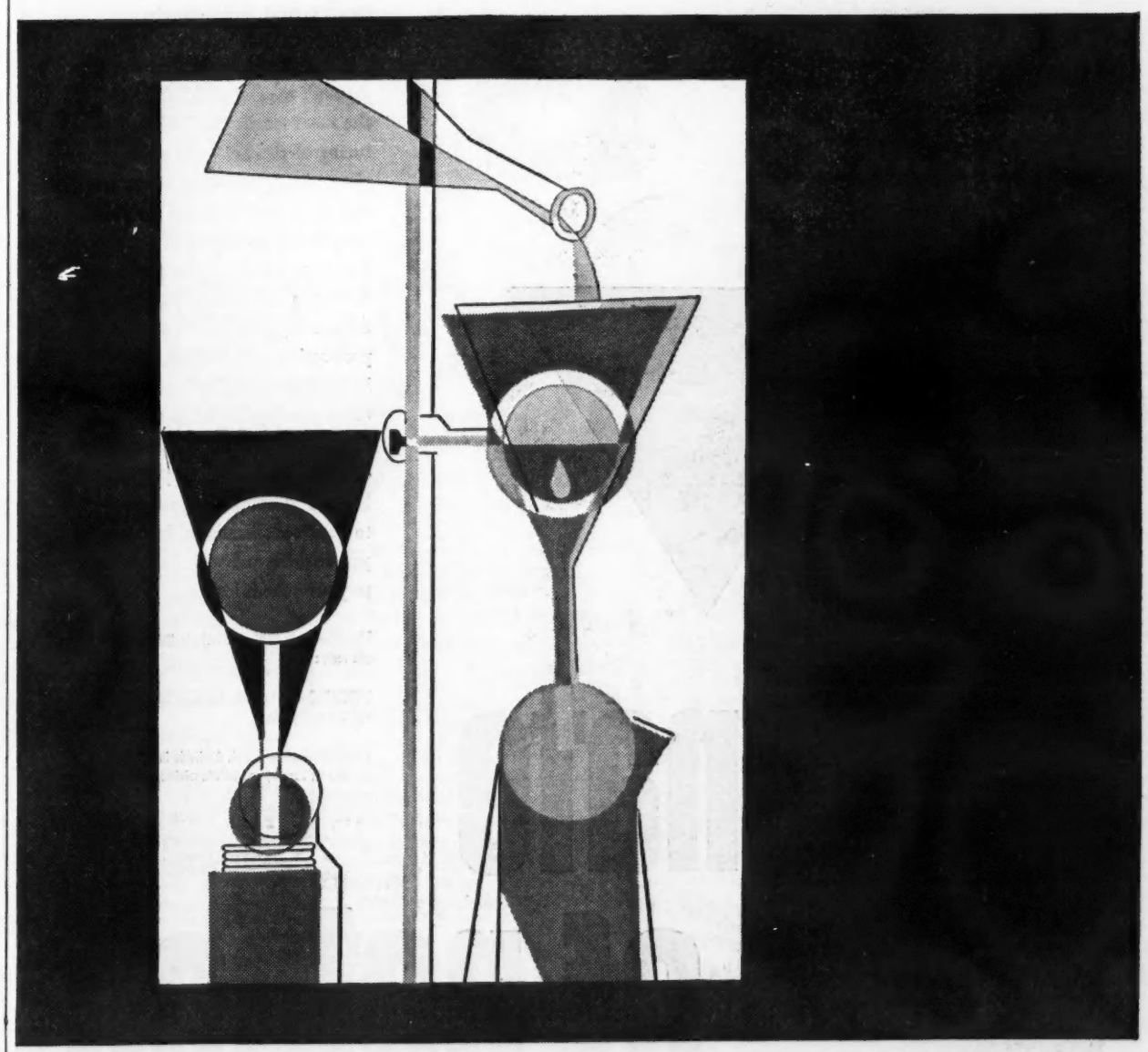
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205° 292° F., b.r., 37° 38°C. m.a.p. gal. .24 - .26
17°-29°C, m.a.p. gal. .29 - .30
256°-383°F., b.r., 35°C., m.a.p. gal. .29 - —
27°-28°C. m.a.p. gal. .29 - .29½
19°C. m.a.p gal. .34 - —
310°-392°F. b.r., 30°-38°C. m.a.p. gal. .27 - .30
17°-19°C., m.a.p. gal. .35 - .38

Petroleum solvent, partial aromatic, tanks, E. Coast, N. J., N. Y., 350°-425° F. b.r., 32°-34° C. m.a.p. gal. .30 - .30½
25°C., m.a.p. gal. .39 - .39½
18°-21°C., m.a.p. gal. .35 - .42½
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875 - —
Stoddard, tanks, East Coast, N. J., N. Y gal. .17 - —
Group 3 gal. .12375 - —
Pennsylvania, western gal. .15 - —
tankwagon, Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .173 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —

Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16 - .18¼
l.c.l. works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulfonic content, non-ret. dms., works lb. .15½ - —
l.c.l., works lb. .16½ - —
tanks, works lb. .12½ - —
o-Phenetidine, dms., works lb. 1.00 - —
p-Phenetidine, dms., works lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 4.00 - —
Phenobarbital-sodium, USP, dms., 100-lb lots lb. 4.00 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt alld E. of Rockies lb. .15¼ - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .14 - —

Paraformaldehyde—m-Phenylenediamine

Phenol, 82-84% (cresol 16-18%), non-ret. drums., c.l., same basis lb. .15¼ - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½ - —
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼ - .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½ - —
USP, synthetic, dms., c.l., frt. alld lb. .17¾ - —
l.c.l., same basis lb. .18½ - —
tanks, same basis lb. .16 - —
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .53 - —
over 2,100 lbs., same basis lb. .55 - —
less than 2,100 lbs., same basis. lb. .57 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde solution, 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 - 37.50
1-Phenyl-3-carbetnoxy pyrazolone-5, 250-lb. fib. dms., dlvd. E. lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., dlvd E. lb. .40 - —
l.c.l., dlvd. E lb. .41 - —
m-Phenylenediamine, dms., frt. alld. lb. .90 - —



In industrial finishing specify PENOLA SOLVENTS

for assured high quality

Penola Solvents offer all of these important advantages

- Uniformity
- Purity
- Controlled Evaporation
- Special Handling
- Balanced Solvency
- Immediate availability

FOR YOUR INDUSTRIAL FINISHING NEEDS — always be sure to specify PENOLA Solvents.

FOR EXPERT TECHNICAL ASSISTANCE — always be sure to call the Penola Office nearest you for any technical data or assistance regarding your industrial finishing problems.

Penola

PENOLA OIL COMPANY · NEW YORK · DETROIT · CHICAGO

p-Phenylenediamine—Procaine Hydrochloride

p-Phenylenediamine, redistilled, dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Phenylethanolamine, d m s., c.l., works lb. .69½- —
l.c.l., same basis lb. .70 - —
Phenylethyl acetate, bots lb. 1.35 - 1.95
b-Phenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots, works lb. 1.15 - 1.40
Phenylethylphenyl acetate, bots lb. 3.95 - 4.40
Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride, commercial, kgs., works lb. 1.75 - —
purified, bots., works lb. 5.17 - —
1-Phenyl-3-carbethoxy-pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.70 - —
smaller lots, dlvd lb. 2.00 - —
o-Phenylphenol, dms., works lb. .20 - —
p-Phenylphenol, bgs., c.l., works lb. .37½- —
l.c.l., works lb. .42 - —
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms. lb. 17.00 -17.25
tech., fib dms., works lb. 10.45 - —
Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans ton. 43.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70-68%, b.p.l., c.l., same basis long-ton. 5.06 - —
72-70%, b.p.l., c.l., same basis long-ton. 5.68 - —
75%-74%, b.p.l., c.l., same basis long-ton. 6.68 - —
77%-78%, b.p.l., c.l., same basis long-ton. 7.68 - —
Phosphate rock, Florida, finely grd., 65%, b.p.l., basis 30%, P_2O_5, minimum, bulk, c.l., mines short-ton. 5.60 - —
68%, b.p.l. basis 31% P_2O_5, minimum, mines short ton. 5.80 - —
70%, b.p.l. basis 32% P_2O_5, minimum, mines short-ton. 6.15½- —
Plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c. per long ton higher.
Phosphorus, amorphous, red, cs. lb. .46 - .47
dms. lb. .44 - .45
yellow, cns., works lb. .48 - .50
dms., c.l., works lb. .40 - —
l.c.l., works lb. .43 - —
Oxychloride, dms., c.l., works lb. .14 - —
l.c.l., dms., works lb. .17 - —
tankcars, works lb. .12½- —
Pentasulfide, solid, dms., c.l., works lb. .11½- —
l.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .13½- —
l.c.l., works lb. .16½- —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms. lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .17 - —
tankcars, works lb. .12½- —
Phthalic anhydride, cgs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19½- —
Phthalimide, 97%-98%, dms., works, frt. alld lb. .68 - .70
a-Picoline, ret., dms., c.l., works, frt. equald lb. .43½- —
l.c.l., works, frt. equald lb. .44 - —
b,g-Picoline, 5°, dms., c.l., works lb. .31 - .32½
l.c.l., works lb. .33 - .33
g-Picoline, 98%, dms., c.l., works lb. 2.65 - —
Pilocarpine hydrochloride, NF, bots oz. 5.25 - —
Nitrate, USP, bots., vials oz. 4.80 - 4.90
Pimento, Jamaican, bgs lb. .61 - —
Mexican, bgs lb. .56 - —
Pink root, bls. lb. 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots kilo. 3.00 - 3.50
Piperidine, 98%, dms., frt. equald, lb. 2.90 - 3.00
Piperonyl butoxide, dms., dlvd. E lb. 4.50 - 5.30
Cyclonene, dms., dlvd. E lb. 4.20 - 4.50
Pitch, coaltar, 140°-150° F., m.p., dms., c.l., works ton. 41.30 -42.00
Cottonseed, raw, dms., works lb. .02¼- .03
Linseed, dms lb. .06 Nom.
Marine, dms. lb. .04¼- .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .03¾- .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 84.00 -87.00
Pleurisy root, bls ton. .45 - .50
Podophyllum resin, NF, dms lb. 3.75 - —
Poke root, bls lb. .19 - .22
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs lb. .15½- —
Dutch, bgs lb. .19 - —
Polish, bgs lb. .18 - —
Turkish, bgs lb. .16 - —
Potash, caustic, regular, flake, 88-92%, dms., c.l., works, 100 lbs. 9.15 - —
l.c.l., works 100 lbs. 10.20 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
l.c.l., same basis, works, 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd. dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
l.c.l., works lb. .15½- —
Potassium bichromate in drums ¾c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt lb. .32½- —
smaller lots lb. .33 - .36
dms., c.l. lb. .32 - —
imported, kgs lb. .26 - —
Bromate, bbls., 1,000 lbs. or more, lb. .50 - .52
25-200-lb lots lb. .55 - .57
Bromide, USP, gran., bbls. kgs, lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs. 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
USP, gran., bbls., dms lb. .16½- .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works lb. .10¼- —
l.c.l., works lb. .11½- .12
powd., dms., c.l., works lb. .10¾- —
l.c.l. works lb. .12 - 12½
export, dms., New York lb. .12¾- .13½
NF gran dms lb. .32 - .33
Chloride, USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd. dms lb. .24 - .26
Chromate, tech., bgs lb. .50 - .50½
Citrate, USP, gran., dms lb. .41 - —
powder, dms lb. .40½- .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
smaller lots, works lb. .57 - —
Dichromate (see Potassium bichromate).
Ferricyanide, kgs lb. .60 - .63
Ferrocyanide, dms., ton lots lb. .22½- —
smaller lots lb. .23 - —
kgs. lb. .28 - —
Fluoborate, fib. dms., c.l., works, lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate dms lb. .75 - .79
Glycerophosphate, 75% solution cbys lb. 2.15 - 2.25
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms. lb. 2.15 - —
Manure salt, 22% K_2O, bulk, mines unit-ton. .17 - —
Metabisulfite, gran., dms lb. .20 - .21
powd. dms lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .36 - .37½
Trona, Cal unit-ton. .44½- —
50-51% K_2O, paper bgs., f.a.s. bad, N. M ton. 22.70 - —
Nitrate, cryst., bbls., 10-ton lots, 100 lbs. 14.40 - —
smaller lots 100 lbs. 14.65 -14.90
gran., bbls., 20-ton lots 100 lbs. 9.75 - —
smaller lots 100 lbs. 11.10 -11.50
powd., bbls., 20-ton lots, 100 lbs. 10.75 - —
smaller lots 100 lbs. 12.00 -12.50
NF, gran., dms lb. .09¾- .11¾
Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton. 180.00 - —
bbls., ton lots, ex whse ton. 261.00 - —
smaller lots, ex whse ton. 266.00 - —
Powdered Potassium pentoborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .16½- —
Permanganate, tech., dms., works lb. .22½- .23½
USP, dms, works lb. .24¾ .30¼
Persulfate, dms., 5-ton lots, works, lb. .21½- —
1-ton lots, works lb. .23½- —
Phosphate, tetrabasic, bbls., works lb. 16½ .18½
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works, 100 lbs. 17.00 - —
l.c.l. 100 lbs. 17.80 - —
solution, clarified, 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms., or more, works 100 lbs. 6.55 - —
tanks, works 100 lbs. 5.45 - —
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.35 - —
l.c.l., 5 dms. or more, works 100 lbs. 6.50 - —
tanks, works 100 lbs. 5.00 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.60
tanks, works 100 lbs. 6.10 - —
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld. E lb. .682 - .748
Sulfate, agricultural, 49-51%, K_2O, bulk, works ton. 32.00 - —
NF VII cryst. dms lb .31 - .33
gran., dms. lb. .18½- —
powder, dms. lb. .36½- .17
Sulfocyanide, NF, cryst., (see Potassium thiocyanate)
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works lb. .77 - .79
Titanate, cms., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less, works lb. .14¾- —
Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO ton. 13.75 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .32½- —
5,000-lb. lots lb. .33 - —
smaller lots lb. .33½- .38½
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Pregnenolone, bots gram. .60 - —
Acetate, bots gram. .55 - —
Progesterone, USP, bots., 100-gr. lots gram. .65 - —
Acetate, bots gram. .70 - —
Procaine hydrochloride, USP, dms., frt. alld lb. 3.10 3.40

carbonate of potash

purity and uniformity

Control of production all the way through mining and refining of the raw material to final manufacturing of the finished product gives you a plus value when you depend on *International* for your supplies of carbonate of potash. You can be sure of the grade, density, particle size, purity and uniformity you must have for the production of fine glass, chemicals, pharmaceuticals, textiles and other products. And in addition, because of *International's* complete control of production, you can be sure of continuing supplies to your specifications, in tonnages you require and with deliveries to your schedules.

LIQUID—47 to 48%. Available in 675 lb. drums and tank cars.

HYDRATED—83 to 85%. Available in 100 lb. bags and 400 lb. barrels.

CALCINED—99 to 100%. Available in 100 lb. bags and 325 lb. barrels, and bulk in minimum carloads.

mining · refining · manufacturing

CAUSTIC POTASH—*all standard grades*
CARBONATE OF POTASH—*all standard grades*
POTASSIUM CHLORIDE—*refined and technical grades*
SULFATE OF POTASH
LIQUID CHLORINE
FERRIC CHLORIDE
HYDROCHLORIC ACID

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

Address all inquiries to Industrial Sales Dept., Potash Division
General Offices: 20 North Wacker Drive, Chicago 6
61 Broadway, New York 6
Midland, Texas

Propane, commercial grade tanks, group 3	gal.	.03	—
n-Propyl acetate, dms., c.l., dlvd.	lb.	.12¾-	—
i.c.l., dlvd.	lb.	.13¾-	—
tanks, dlvd	lb.	.1075-	—
Propyl gallate, dms., 100 to 2,000-lb. lots, works	lb	3.90	4.40
p-Hydroxybenzoate, USP, dms.	lb.	2.30	- 2.40
Thiouracil, bots., 50-kilo lots or more	kilo.	55.00	—
smaller lots	kilo.	55.10	-55.30
Propylene dichloride, dms., c.l., dlvd. E.	lb.	.0645-	.095
i.c.l. same basis	lb.	.0950-	.1050
Glycol, industrial, dms., c.l., dlvd. E	lb.	.13¼-	—
i.c.l., same basis	lb.	.14¼-	—
tanks, same basis	lb.	.11½-	—
USP, dms., c.l., dlvd. E	lb.	.15¼-	—
i.c.l., same basis	lb.	.16¼-	—
tanks, same basis	lb.	.13½-	—
Methyl ether, dms., c.l., dlvd. E	lb.	.20	- —
i.c.l., same basis	lb.	.21	- —
tanks, same basis	lb.	.18½-	—
Oxide, dms., c.l., dlvd. E	lb.	.15½-	—
i.c.l., dlvd. E	lb.	.16½-	—
tanks, dlvd. E	lb.	.13½-	—
Psyllium seed, black, bgs	lb.	.80	- —
blonde, bgs.	lb.	.18	- .20
husks, bgs.	lb.	.45	- .50
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots	lb.	.02½-	.04¼
smaller lots	lb.	.03⅛-	.04½
imported, Italian, silk-screen, coarse, bgs., ton lots	lb.	.06½-	—
fine, bgs. ton lots	lb.	.04	—
sun dried coarse, bgs ton lots	lb.	.02½-	.04
fine, bgs., ton lots	lb.	.02½-	.04
Pumice in bbls is ½c. per lb higher			
Pumpkin seed, bgs	lb.	.25	- .29
Pyrethrin, synthetic (see Allethrin).			
Pyrethrum flowers, fine grd., 0.9% pyrethrins bbls works	lb.	.50	- —
powder, 1.3% pyrethrins, bbls., works	lb.	.71½-	—
liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless base, 50 dms., works.	gal.	8.35	- —
1-4 dms., works	gal.	8.55	- —
Oleoresin, dewaxed, 20%, dms., works	lb.	9.80	-10.15
purified, 20%, dms., works	lb.	10.00	-10.10
Pyridine, denaturing, dms., c.l., works and frt. equald	gal.	2.77	- —
i.c.l., same basis	gal.	2.80	- —
refd., 2°, non-ret. dms., l.c.l., same basis	lb.	.95	- —
Pyridoxine hydrochloride, bots., 100-gram lots	gram.	.55	- —
Pyrites, Canadian, works long-ton		3.00	- 6.00
Pyrocatechol (see Catechol).			
Pyrogallol, NF	lb.	3.25	3.43
Pyroxylin, scrap, ungrd., amber, dms., works	lb.	.20	- —
black, dms., works	lb.	.12	- —
mixed, mottled, dms., works	lb.	.13	- —
shavings, amber, cs., works	lb.	No stocks.	
mixed colors, dms., works	lb.	.11	- —
white, china, ivory, dms., works	lb.	.16	- —
dense, opaque, dms., works.	lb.	.12	- .13
translucent pastels, cs., works	lb.	.14	- —
transparent colorless, dms, works.	lb.	.25	- —
colors, dms., works	lb.	.15	- —
USP, bots	lb.	9.50	- —

Q

Quassia chips	lb.	17	- —
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l.,	lb.	.16½-	.16¾
liquid, 35% tannin, bbls., tanks, works	lb.	.08¼-	—
solid, 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12⅛-	—
ordinary, 63% tannin, bgs., c.l. same basis	lb.	.11 31.64	—
Quercitron extract, crystals, No. 1, bbls., l.c.l.	lb.	.40	- —
liquid, No. 1, bbls., l.c.l.	lb.	.19	- —
Quicksilver (see Mercury metal).			
Quince seed, bgs	lb.	2.00	Nom.
Quinidine, NF, V cryst., cns., 100-oz. lots	oz.	1.15	- —
powd., precip., cns., 100-oz. lots.	oz.	1.17	- —
Sulfate, USP, cns., 100-oz. lots.	oz.	.87	- —
Quinine, NF, cns., 100-oz. lots	oz.	.54	- —
Bisulfate, USP, cns., 100-oz. lots	oz.	.37½-	—
Dihydrochloride USP cns	oz.	.54	- —
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.63½-	—
Hydrobromide, NF cns., 50-oz. cns.	oz.	.47½-	—
Hydrochloride, USP, cns., 100-oz. lots	oz.	.47½-	—
Phosphate, NF, cns., 100-oz. lots.	oz.	.61	- —
Salicylate, NF, cns., 100-oz. lots.	oz.	.55	- —
Sulfate, USP, cns., 100-oz. lots.	oz.	.42	- —
Quinine and Urea hydrochloride, NF, cns.	oz.	.56	- —
Quinolin, dms., c.l., frt. equaid	lb.	.50¾-	—
i.c.l., same basis	lb.	.51¼-	—
tanks, same basis	lb.	.50	- —

R

R salt, paste, 100% basis, dms., frt. alld	lb.	.83	- —
powd., basis 100%, frt. alld	lb.	.88	- .93
Red, BON acid maroons, pure, bbls.	lb.	1.75	- —
resinated, bbls	lb.	1.50	- —
arylid, deep shades, bbls	lb.	3.60	- —
light shades, bbls	lb.	2.75	- —
maroon, bbls	lb.	3.60	- 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies	lb.	4.30	- —
light shade, same basis	lb.	4.00	- —
medium shade, bbls., same basis	lb.	4.25	- —
medium-light shade, bbls., same basis	lb.	4.05	- —
orange shade, bbls., same basis	lb.	3.95	- —
lithopone, deep shade, bbls., same basis	lb.	1.93	- —
light shade, bbls., same basis.	lb.	1.70	- —
maroon shade, bbls., same basis	lb.	2.05	- —
medium shade, bbls., same basis	lb.	1.85	- —
medium-light shade, bbls., orange-red shade, bbls, same basis	lb.	1.64	- —

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco.

Red, carmine No. 40 (see Carmine).			
Dyes (see Dyes, coaltar).			
same basis	lb.	1.77	- —
Eosin toner, bbls., works	lb.	1.60	- —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N Y	lb.	.12¾-	—
Iron oxide, natural, 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., East St. Louis	lb.	.06	- —
synthetic, 98% ferric oxide, bgs., c.l., works	lb.	.12¾-	—
i.c.l., works	lb.	.13	- —
Lake C toner, alizarin, bbls., works	lb.	1.10	1.20
Lithol, toner, bbls., works	lb.	.79	- —
rubine toner, pure, bbls., works	lb	1.50	- —
resinated, bbls., works	lb	1.40	- —
Virginia type, bbls., works	lb	1.40	- —
Maroon toner, MNPT, kgs., works.	lb.	3.60	- —
10,000-lb. lots, works	lb.	4.22	- —
smaller lots, works	lb.	4.24	- —
Metallic, bbls., c.l., works	lb.	.02½-	—
i.c.l. works	lb.	.02¾-	—
Oxide (see Red iron oxide).			
Persian gulf, bgs., c.l., works	lb.	.06¾-	—
i.c.l., works	lb.	.07	- —
Para toner, bbls	lb.	.95	- —
Chlorinated, kgs	lb.	1.10	1.15
Phloxin toner (see Red eosin toner).			
Rhodamine, molybdated, PMA, kegs	lb.	5.35	- —
tungstated, PTMA, works, kegs.	lb.	5.95	- —
Spanish, oxide, bbls., c.l., ex dock	lb.	.05¾-	—
i.c.l., ex dock	lb.	.06	- —
ex whse., New York	lb.	.06½-	—
Toluidine toner, deep shades, kgs., works	lb.	1.50	- —
light shades, kgs., works	lb.	1.50	- —
Red, turkey, bbls., works	lb.	.60	- —
Tuscan, bbls., frt. equald	lb.	.24½-	.25
Venetian, 15%, bgs., works	lb.	.0350-	.037
20%, bgs., works	lb.	.0475-	—
25%, bgs., works	lb.	.0525-	—
30%, bgs., works	lb.	.0550-	—
35%, bgs., works	lb.	.0575-	—
40%, bgs., works	lb.	.0625-	—
Watchung type, bbls.	lb	1.95	- —
Red KB base (see 4-Chloro-2-aminotoluene).			
Red, precipitate (see Mercuric oxide, red).			
Red saunders, NF, powd., bbls	lb.	.35	- .40
Rennin, NF, powder	lb.	6.25	- —
Resorcinol, tech. grade, dms., c.l., works	lb.	.77½-	—
i.c.l., works	lb.	.76½-	—
USP, cryst., dms., works	lb	2.75	- —
powd., dms., works	lb.	2.95	- —
Monoacetate NF dms.	lb	3.25	3.45
Rhatany root, bgs	lb.	.15	- .16
Rhodinol, 5-lb. cans	lb.	25.00	-56.00
Rhubarb root, China, whole, cs	lb.	.75	- .85
powd., bbls.	lb.	.90	- .95
India, whole, bgs.	lb.	.35	- .40
powdered, bbls.	lb.	.43	- .45
Riboflavin USP, bots., dlvd	kilo.	100.00	- —
readily soluble, bots., dlvd	kilo.	130.00	- —
5'-phosphate-sodium, 100-gram lots or more	kilo.	140.00	- —
Rochelle salt (see Potassium-sodium tartrate).			
Rosin, gum and wood (see Naval Stores Protective Coatings market).			
Rotenone, CP, bbls., works	lb.	20.00	- —
tech. bbls. works	lb.	16.50	- —
Rottenstone, bgs., 5-ton lots, ex-whse	lb.	.03	- —
ton lots, same basis	lb.	.04	- —
Rutin, NF, fib, dms. 25-kilo lots.	kilo.	25.00	—
10 to 25-kilo lots	kilo.	25.00	-30.00
1 to 10-kilo lots	kilo.	30.00	- —
Ryania, 100%, powd., bgs., c.l., works.	lb.	.22	- —
i.c.l., same basis	lb.	.24	- —

S

Sabadilla seed, powd., bbls	lb.	49	4.15
activated ground with lime, bbls	lb.	.35	.38
Saccharin, USP, gran., soluble, dms., 1000 lb lots	lb	1.60	—
smaller lots	lb	1.70	1.80
powd., soluble insoluble, dms. 1000 lb lots	lb	1.65	—
smaller lots	lb	1.75	1.95
Saffron, Spanish, USP, tins	lb	25.00	- —
Safrol, dms.	lb	1.15	- 1.50
Sage, Cretan, bgs	lb.	.11½-	—
Dalmatian, bgs	lb.	.36	- .38
Italian, bgs	lb.	.14	- .14⅛
Sago flour, raw, bgs	lb.	.06¾-	.07
refined, bgs	lb.	.08½-	.09
Sal soda (see Soda sal)			
Salol, NF, gran., bbls., kgs	lb.	1.10	- —
Powdered salol, 25c. higher			
Salt, rock, paper bgs., c.l.	100 lbs.	.98	- —
Table, vacuum, common, fine, paper bgs., c.l	100 lbs.	1.12	- —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton.	22.00	- —
Saltpeter (see Potassium nitrate.			
Sandalwood, East Indies, chips, bgs.		.65	- .68
powd., dms	lb.	.75	- .78
Sanguinarine nitrate, bots	oz	4.75	5.50

NH_4Cl

These properties of SOLVAY AMMONIUM CHLORIDE may be useful in Your operations

Some Typical USES and MARKETS for SOLVAY Ammonium Chloride

- **Dry Cell Batteries**
- **Textiles** dyeing operations
- **Flux** used in galvanizing and soldering
- **Leather** compounding of "Tanners bate"
- **Yeast Food**
- **Urea-Formaldehyde**
- **Resins and Adhesives** provides acid salt to accelerate polymerization.
- **Alkaline Cleansers** source of dry Ammonia
- **Bricks** offsets effects of pyrites in clay
- **Ice Manufacturing** produces clear, non-brittle ice
- **Snow Treatment** slows melting on ski slopes
- **Fireproofing Agent** for temporary treatment of paper and textiles
- **Blasting Powder**
- **Water Purification**
- **Foundries** casting sealer
- **Soot Remover**
- **Veterinarian Medicines**

CHECK THESE PHYSICAL and CHEMICAL PROPERTIES of SOLVAY AMMONIUM CHLORIDE

Molecular Weight: 53.50

Solubility in water: 20% at −13° C, 25% at 10°C, 30% at 33°C, 40% at 83°C. Strongly endothermic (lowers solution temperature upon dissolving). Aqueous solubility suppressed by sodium chloride. Slightly soluble in methyl and ethyl alcohol and acetone. Fair solubility in glycerine.

Melting Point: Sublimes.

pH of Solutions: 25°C: 1% 5.5, 3% 5.1, 10% 5.0 (technical grade).

Appearance: White crystals, practically 100% will pass through a No. 20 screen. Tends to cake upon storage.

Reactions: Decomposed in solution by strong alkalies to liberate ammonia. Reacts with nitrites to form nitrogen. Reported to reduce oxides of cobalt and nickel at high temperatures. Hydroxides of nickel, zinc, cadmium and manganese reported to be more soluble in water in presence of ammonium chloride. Acid characteristics cause acceleration of set of urea-formaldehyde resins.

Quality: Principal impurity is sodium chloride. Very low in metallic impurities. Technical grade better than 99% NH_4Cl.

This stable, low-cost, high purity salt has such a wide variety of properties that its uses range from the manufacture of dry cell batteries . . . to its use as a flux in galvanizing and soldering . . . to the application of its endothermic action in retarding the melting of snow.

SOLVAY Ammonium Chloride is *highly soluble* at even relatively *low temperatures.* It is an active electrolyte in water—it has an acid reaction—it has an extremely low metallic content—and it also appears to have the ability to act as a catalyst in certain organic reactions.

TEST SAMPLES and further details are available at no cost or obligation. Write us giving information on your operation so that we can best evaluate how SOLVAY Ammonium Chloride can fit into your particular situation. All information will be kept in strictest confidence.

SOLVAY AMMONIUM CHLORIDE

Get the facts—send for samples Mail Coupon Now!

Allied Chemical

Soda Ash • Snowflake® Crystals • Potassium Carbonate • Calcium Chloride
Sodium Bicarbonate • Ammonium Bicarbonate • Cleaning Compounds • Chlorine
Caustic Potash • Ammonium Chloride • Sodium Nitrite • Caustic Soda
Monochlorobenzene • Para-dichlorobenzene • Ortho-dichlorobenzene

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

Gentlemen: I am interested in the possible use of SOLVAY Ammonium Chloride in my operations. Please send me, without cost or obligation, samples and further information.

Name_____

Company_____

Position_____

Address_____

City_____ Zone____ State_____ DU-6

Santonin—Sodium Para-aminosalicylate

Santonin, NF, dom. cryst., powd., cns., dms lb.76.50 -80.00
imported, cryst., powd., cns lb.76.50 -80.00
Sarsaparilla root, dom. bls lb .45 .50
imported, Honduras, bls lb. .45 Nom.
Mexican, bls lb. .35 Nom.
Sassafras root bark, ord., bls lb. .50 - .55
select, bls. lb. .65 - .67
Schaeffer's salt, paste, dms., frt. alld., 100% basis lb. .85 - .95
powder, bgs., frt. alld lb. .95 - —
Scopolamine hydrobromide, USP, bots oz.12.25 -12.50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½- —
smaller lots lb .31 .32
Selenium, powd., dms., dlvd. lb. 5.00 - 6.00
Senega root, bls lb. 2.30 2.40
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria root, bls lb. 4.65 5.00
Sesame seed, Nicaragua hulled, ship't, bgs lb. .27½- .28
natural, bgs lb. .17½- .18
Salvadorian, natural lb. .18 - .18½
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .47 - —
bbls., 1,500-lb. lots lb. .48 - —
kgs., 1,500-lb. lots lb. .50 - —
refined, bgs., 1,500-lb. lots lb. .57 - —
bbls., 1,500-lb. lots lb. .58 - —
kgs., 1,500-lb. lots lb. .60 - —

Bonedry shellac prices for less than 1,500-lb. lots, 1c. per lb higher for all packages.

Shellac, lemon, No. 1, bgs., 10-bg. lots lb. No prices.
No. 2, bgs., 10-bg. lots lb. No prices.
Superfine, bgs., 10-bg. lots lb. No prices.
TN, bgs., 10-bg. lots lb. No prices.

Shellac in 1 to 9 bg. lots, 1c. more.

Shingle stain oil (see Oil, shingle stain).

Silica, amorph., dry grd., 325 mesh bgs., c.l., works ton.25.00 - —
l.c.l., works ton.30.00 -40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton.20.00 - —
l.c.l., works ton.25.00 -30.00
140 mesh, bgs., c.l., works ton.15.00 - —
l.c.l. works ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½
Silver bullion, ingots, cs lb. .85¼- —
Cyanide, 6b. dms., 2,500-oz. lots oz. .77¾- —
1,000-oz. lots oz. .77⅝- —
500-oz. lots oz. .77⅞- —
100-oz lots oz. .78¼- —
Nitrate, CP, crystals, bots., 2,500-oz. lots oz. .54¾- —
1,000-oz. lots oz. .55 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —

USP granular silver nitrate, 8c. per oz. higher.

Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls. lb. .28 - .30
crushed, bls., bbls. lb. .32 - .33
powd., bbls lb. .35 - .37

Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.73 - —
l.c.l., stock points 100 lbs. 2.85 - 4.68
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.45 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l. stock points 100 lbs. 2.75 - 4.72
bbls., c.l., works 100 lbs. 2.20 - —
l.c.l. stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.35 - —
Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equald. 100 lbs. 4.10 - 4.25
l.c.l., stock points 100 lbs. 5.40 - 5.45
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - 2.70
rayon-type tanks works, dry basis 100 lbs. 2.65 - 2.80
70%, sellers' tanks, works, dry basis 100 lbs. 2.65 - 2.80
rayon type tanks, works, dry basis 100 lbs. 2.75 - 2.90
solid, 76%, dms., c.l., works, 100 lbs. 3.70 - 3.85
l.c.l., stock points 100 lbs. 4.50 - 5.05
Sal, bgs. c.l., works 100 lbs. 1.40 - —
l.c.l. works 100 lbs. 1.70 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
dms., l.c.l., works lb. .12¾- —
NF, gran., dms., works lb. .18½- .19
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refined, bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000 lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted. lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd. E lb. .26¼- —
l.c.l., dlvd. E lb. .28 - —

Sodium arsenate, dms., c.l., works lb. .12½- —
l.c.l., dms., works lb. .13¾- .14⅛
Arsenite, dms., c.l., works lb. .13½- —
l.c.l., dms. works lb. .14¼- .15¼
solution, dms., works gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo.21.00 - —
10-kilo lots kilo.21.35 - —
5-kilo lots kilo.21.75 - —
1-kilo lots kilo.22.00 - —
bots., 500-gram lots kilo.22.50 - —
Benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
l.c.l., works 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 3.30 - —
Bichromate, bgs., c.l., works lb. .11½- —
l.c.l., works lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equald lb. .17½- —
l.c.l., same basis lb. .1790- —
Bisulfate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., works 100 lbs. 2.65 - 3.85
l.c.l., works 100 lbs. 3.05 - 3.65
Bisulfite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works, 100 lbs 1.40 - —
l.c.l., works 100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, dms., jars lb. 6.25 - 8.50
Carbonate, anhydrous (see Soda ash).
crystalline, decahydrated (see Soda sal).
monohydrated, bgs., c.l., works 100 lbs. 2.90 - —
l.c.l., works 100lbs 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works, lb. .08¾- —
l.c.l., works lb. .10¼- .11
Chloride, tech. (see Salt).
USP, dms. lb. .05 - .12
Chlorite, tech. dms., works lb. .58 - .73
Chloroacetate, tech., dms., c.l., works lb. .24 - —
l.c.l., works lb. .25 - .28
Chromate, dms., c.l., works lb. .13¼- —
l.c.l., same basis lb. .13¾- .15
Citrate, anhyd., dms lb. .60 - .65
NF VIII, gran., dms lb. .26 - .30¼
USP XIV gran., dms. lb. .29½- .34

Sodium citrate USP powd. prices ½c. higher.

Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works lb. 1.00 1.25
Cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —

Granular sodium cyanide 1c. higher.

Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., works lb. .14¾- —
anhydrous, dms. c.l., works lb. .17 - —
l.c.l., works lb. .17¾- —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10 ton lots lb. .13½- —
smaller lots lb. .14 - —
Fluoride, white, 97%, bbls., c.l., works lb. .1250- —
l.c.l. works lb. .1290- —
Formate, bgs., c.l., dlvd. E 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb fib dms lb 8.50 - —
Gluconate, refined, dms lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l lb. 1.55 - —
Glycerophosphate, NF, cryst., bbls lb. 2.10 - 2.25
powder, bbls lb. 2.15 - 2.30
solution, 75%, cbys. lb. 1.45 - 1.60
Hydride, dms., works lb. 2.00 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld lb. .23 - —
alld lb. .23 - —
l.c.l., frt. alld. lb. .23½- —
Hydroxide, tech. see Soda caustic).
NF, pellets, 100-lb dms. 1 to 100-dm. lots lb. .18½- .23
Hypophosphite, NF, dms., ton-lots, or less lb. .95 - .98
Hyposulfite, NF (see Sodium thiosulfate).
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works, 100 lbs. 4.50 - 4.75
l.c.l., works 100 lbs. 5.00 - 5.05
technical, bgs., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - 6.90

Sodium hyposulfite crystals in bbls., 50c. higher.

Iodide, USP, bots., dms lb. 2.80 - 2.93
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms. cbys., works lb. .26½- —
tech., 50% dms., cbys., works, lb. .16¼- —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton.78.50 - —
l.c.l., ex whse ton.124.50 -129.50

Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.

Tetrahydrate, c.l., bbls., works, ton.199.50 - —
Metallic, bricks, bbls., works lb. .17 - .19
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 4.85 - —
l.c.l., works 100 lbs. 5.20 - 7.10
dms., c.l. 100 lbs. 5.25 - —
l.c.l. 100 lbs. 5.60 - 6.00
Pentahydrate, bgs., c.l., works, 100 lbs. 4.00 - —
l.c.l., works 100 lbs. 4.35 - 4.75
dms., c.l., works 100 lbs. 4.40 - —
l.c.l., works 100 lbs. 4.75 - 5.15
Molybdate, bbls., cbys., works lb. .75 - .85
powd., anhyd., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton.47.00 - —
bulk, c.l., works ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton.53.00 - —
bulk, c.l., same basis ton.49.50 - —
Nitrite, USP, bbls., c.l., works, frt. equald lb. .0775- —
l.c.l., same basis lb. .0925- —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.35 - 6.75
hydrated, flake, bbls., c.l., works 100 lbs. 5.25 - —
l.c.l., dlvd. 100 lbs. 7.00 - —
Oxalate, 98%, bgs., works 100 lbs. 10.85 - —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).

DUVAL
High Grade Muriate of Potash!
DUVAL SULPHUR and POTASH CO.
Modern New Plant and Refinery at Carlsbad, New Mexico
Address all communications to:
ASHCRAFT-WILKINSON CO.
Exclusive Distributors
ATLANTA, GEORGIA
Cable Address ASHCRAFT
CHARLESTON, S. C. • TAMPA, FLA. • JACKSON, MISS. • COLUMBUS

Sodium pentachlorophenate, briquets, bgs., c.l., works, frt. equald..lb. .25½- —
l.c.l., same basis lb. .26½- .28½
pellets, bgs., c.l., same basis..lb. .25 - —
l.c.l., same basis lb. .26 - .28
powdered, bgs., c.l., same basis. lb. .24 - —
l.c.l. same basis lb. .25 - .27

Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.

Perborate, USP, tech., bbls., c.l., works..lb. .193 - —
l.c.l., works lb. .198 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1860- —
l.c.l., same basis lb. .1910- .2010
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt., equald 100 lbs. 7.45 - —
l.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.05 - —
l.c.l., frt. equald.100 lbs. 7.25 - —
monobasic, anhyd., bgs., c.l., frt. equald..100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs. 8.90 - —
tribasic, cryst., bgs., c.l., frt. equald..100 lbs. 4.20 - —
l.c.l., frt equald 100 lbs. 4.60 - —
Sodium phosphates in dms. 60c higher than bgs.

Prussiate, yellow (see Sodium ferrocyanide).

Pyrophosphate acid, bgs., c.l., works, frt. equald 100 lbs.10.75 - —
ferric, dms., 1,500-lb. lots, works. lb. .31 - —
smaller lots, works lb. .34 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.90 - —
l.c.l., frt equald 100 lbs. 8.10 - —
Salicylate, USP, dms lb. .68 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1....100 lbs. 3.85 - 4.10
zone 2 .....100 lbs. 4.10 - 4.35
zone 3 .....100 lbs. 4.40 - 4.65
zone 4 .....100 lbs. 5.10 - 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Sesquisilicate, hydrated, bgs., c.l., works..100 lbs. 4.50 - —
l.c.l., works.....100 lbs. 4.85 - 6.75
dms., c.l., works.....100 lbs. 4.90 - —
l.c.l., works.....100 lbs. 5.25 - 5.65
Silicate, liq., 40° 1:2.3, turbid, dms., c.l., works..100 lbs. 1.35 - —
l.c.l., works...100 lbs. 1.70 - 2.30
tanks, works...100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
l.c.l., dms., works. 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —
52°, turbid, 1-2-3, dms., c.l., works 100 lbs. 2.30 - —
l.c.l., works...100 lbs. 2.65 - 3.05
tanks, works....100 lbs. 1.95 - —
solid, 1:3.2, bgs works ton 57.50 - —
Silicofluoride, bgs., c.l., works..lb. .07 - —
l.c.l., works.....lb. .07 - .08

Sodium silicofluoride in dms., 4/10c. higher.

Stannate dms., works, frt. alld. E. lb. .548 - .602
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works.....lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd., east..100 lbs. 2.50 - —
rayon grade, bgs., c.l., works. ton.29.00 - —
l.c.l., works .....ton.35.00 - —
USP, cryst., bbl dms ..... lb. .17½- .18
gran. fib. dms ..... lb. .17½- .18
Sulfide, flake, dms., c.l., works, E., frt. equald..lb. .05¼- —
l.c.l., same basis lb. .05¾- —
fused, bbls., c.l., works, E., frt. equald lb. .04¾- —
l.c.l., same basis lb. .05¼- —
Sulfite, anhyd., bgs., c.l., works. 100 lbs. 3.00 - —
l.c.l. same basis ...100 lbs. 3.50 - —
powder, bbls., c.l., works 100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 7.50 - —
Sulfocyanide, CP, (see Sodium thiocyanate).
Sulfhydrate, flake, 70-72%, dms., c.l., works..lb. .06½- —
l.c.l., works.....lb. .07 - —
liquid, 40-44%, tanks, works. 100% basis..ton.110.00 - —
Tetraborate (see Borax).
Tetrasulfide, liquid, 40%, dms., c.l., works..lb. .03½- —
l.c.l., works lb. .04 - —
Thiocyanate, CP, dms. . . . . lb. .55 - .65
tech., dms., works ..... lb. .377 - —
Thiosulfate, NF, cryst., bbls .lb. .12½- —
tech. (see Sodium hyposulphite).
Titanate ctns. c.l. works lb. .10½- —
5-ton lots, works.....lb. .10¾- —
1 ton or less, works.....lb. .11 - —
Trichloroacetate, 99% 100-lb. dms., c.l., frt. alld., E. lb. .37½- —
l.c.l., frt. adjusted, E. lb. .39½- —
50-lb. dms., c.l., frt. alld. E. lb. .38 - —
l.c.l., frt. adjusted, E. lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
l.c.l., frt. adjusted, E... lb. .46 - —

Prices on Sodium trichloroacetate West of the Rockies are 1¾c. per pound higher.

Tripolyphosphate, bgs., c.l., works, frt. equald.....100 lbs. 8.03 - 8.25
l.c.l., same basis.....100 lbs. 8.30 - 8.45
Trisilicate, powd., 1:32.2, bgs., c.l., works..100 lbs. 8.65 - —
l.c.l., works .....100 lbs. 9.40 -12.80
dms., c.l., works....100 lbs. 9.05 - —
l.c.l., works.....100 lbs. 9.80 -10.25
Tungstate, tech., kgs., dlvd. E..lb. 1.80 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd. lb. .22 - —
l.c.l., same basis.....lb. .22½- —

Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works. lb. .28 - —
smaller lots, same basis..lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .33
high-flash, tanks, works gal. .31 - .33

petroleum (see Petroleum solvent, partial aromatic).

Sorbitan monostearate, fib. dms., 20,000-lb. lots, works.....lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots, works..lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works lb. .38 - .40
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
1 to 5-ton lots, works lb. .32 - .33
powd., dms., 1 to 5-ton lots, works lb. .38 - .39
solution commercial, aqueous, dms., c.l., works lb. .24½- —
ton lots works lb. .25 - —
smaller lots, works....lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots works lb. .16¾- —
smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 44% bulk, Decatur ton.89.00 - —
protein, chemically isolated, 40-000 to 60,000-lb. lots, dlvd. lb. .25 - —
20,000 to 40,000-lb. lots, same basis lb. .25¼- —
100 to 20,000-lb. lots, same basis..lb. .25½- —

Sodium Pentachlorophenate—Sucrose Octa-acetate

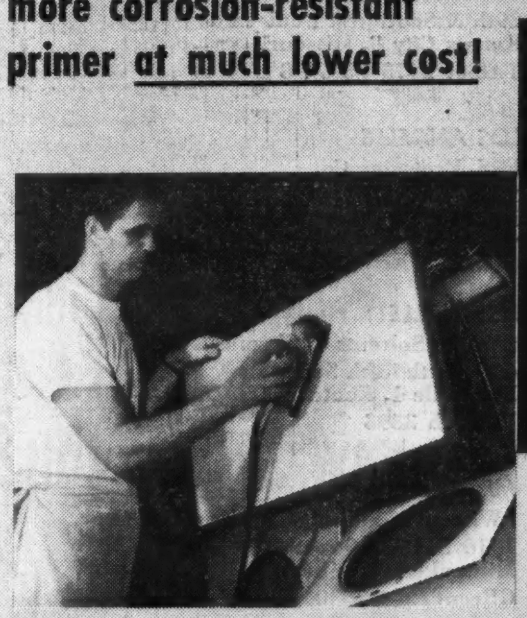
Soybean protein, mechanically refined, bgs., 40,000-lb. lots, same basis..lb. .0805- —
20,000-lb. lots, same basis. lb. .0620- —
smaller lots, same basis. lb. .0635- —
Sparteine sulfate, cns .....oz. .85 - .95
Spearmint leaves, dom., bls.....lb. .75 - —
imported, bls .....lb. 1.25 - —
Spruce extract liq. reg., tanks, works lb. .01¼- —
powd., super, bgs., c.l., works. lb. .05¼- —
l.c.l., works .....lb. .05½- —
Squill, red, fortified, powd., bbls., boxes lb. 1.60 - —
white, bls. .....lb. .12 - .15
powd., bbls., bxs .....lb. .16 - .21
St John's bread, edible bls lb. .13 - .15
Stannic chloride, anhyd., dms., works..lb. .762 - .772
Oxide, dms., dlvd. E .....lb. .97 - .98
Stannous chloride, anhyd., dms., works lb. .817 - 1.086
Hydrous (crystals), dms., works. lb. .85 - .89
Sulfate, dms., works.....lb. .935 - .975
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.14 - —
l.c.l. .....100 lbs. 7.29 - —
powd., paper bgs., c.l 100 lbs 7.26 - —
l.c.l. .....100 lbs. 7.41 - —

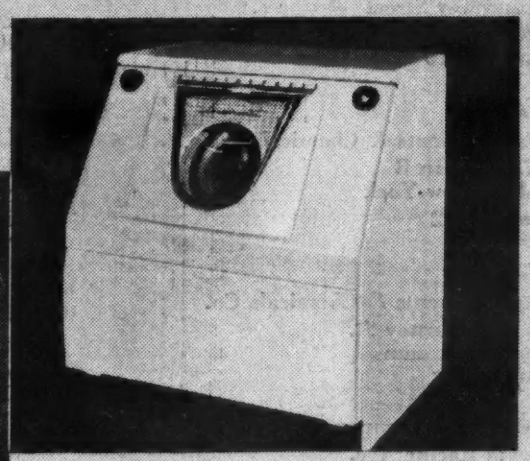
Prices for corn starch in cotton bags 25c. per 100 lbs higher.

Potato, dom., Idaho, bgs., c.l., works..lb. .063 - —
Maine, bgs., c.l., works....lb. .07 Nom.
l.c.l., spot.....lb. .08¾- .09¼
Rice, l.c.l., bgs.....lb. .14 - .15
Wheat bgs .....lb. .0755- .0780
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed bgs. lb. .50 - .61
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, fre. dms lb. 2.95 - 3.10
Stramonium leaves, bgs .....lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .17 - —
Sulfate, bulk .....gram. .17 - —
Strontium bromide, NF, cns. dms. lb. .77 - .78
Carbonate, pure, dms., 5-ton lots or more, works. lb. .35 - —
1-ton lots, works..... lb. .37 - —
tech., dms., works ..... lb. .19 - —
Chromate, bbls., works..... lb. .46 - —
Iodide, jars, 25-lb. lots ..... lb 3.42 - —
Nitrate, bbls, cs., works .... lb .11 - .12
Salicylate NF dms lb 1.65 - —
Sulfate, air floated, 90% 325 mesh bgs. works ton 56.70 -66.15
Strophanthin, K, bots .....oz.25.00 -25.50
G, (see Ouabaine, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax, USP, cs .....lb. .78 - .80
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots.oz. 1.14 - —
Sulfate, USP, powd., cns., 100-oz. lots oz. .85 - —
Crystals, 25-oz. lots..... oz. .96 - —
Styrene monomer, dms., c.l., works. lb. .21½- —
l.c.l., works ..... lb. .23¼- —
tanks works ..... lb .21 - —
Styrolyl acetate, bots ..... lb. 1.45 - 1.70
Sucrose, refined, white, bgs., ref'y East..100 lbs. 8.80 - —
Octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works. lb. .76 - —

EPON® RESIN does it!

WESTINGHOUSE Laundromat gets a tougher, more corrosion-resistant primer at much lower cost!





Laundromat has a baked Epon, flow-coated primer formulated by Pittsburgh Plate Glass Company. Film uniformity calls for only the briefest scuff sanding before application of the white enamel top-coat.

HERE'S HOW...

The protective finish on a washing machine is exposed to severe conditions during its service life. It must, for example, withstand abrasion, impact, attack from highly active alkalies and detergents.

Recently, Westinghouse engineers adopted a greatly improved finish for Laundromat components, using a new *primer* based on Epon resin. Applied by flow coating, the primer is only one-third the thickness of previously used primers. Tests have established a *three-fold* improvement in coating durability under severe conditions . . . and application costs have been materially reduced.

Laundromat components receiving the new Epon resin primer are: top, front, door, lower front panel, bracings, clamps and bottom pan. Some interior surfaces have *Epon primer as their only finish.*

Your Shell Chemical representative will gladly help you explore the advantages Epon resins can bring to your own formulations . . . superior adhesion; excellent resistance to abrasion and impact; resistance to heat, moisture and corrosive atmospheres. Write for SC: 52-31 "Epon Resins for Surface Coating."

SHELL CHEMICAL CORPORATION

Chemical Partner of Industry and Agriculture

380 Madison Ave., New York 17

Atlanta • Boston • Chicago
Cleveland • Detroit • Houston
Los Angeles • Newark • St. Louis

IN CANADA:
Chemical Division, Shell Oil Company of Canada, Limited
Toronto • Montreal • Vancouver

STOCK AND SERVICE CENTERS FOR WARWICK WAXES!

ATLANTA
L. C. Morris Company
P.O. Box 3218, Station F
1156 Dalon Drive, N.E.
Atlanta 6, Georgia
ATwood 0122

BALTIMORE
J. G. Roger Chemical Co., Inc.
546 So. Longwood Street
Baltimore 23, Maryland
EDmondson 6-5919

BOSTON
N. S. Wilson & Sons
150 Causeway Street
Boston 14, Massachusetts
CApitol 7-5010

BUFFALO
*Buffalo Solvents & Chemicals Corp.
Box 73, Station B
Buffalo 7, New York
BEdford 1572

CHICAGO
*Central Solvents & Chemicals Co.
2540 W. Flournoy St.
Chicago 12, Illinois
SEeley 3-0505

Warwick Wax Company, Inc.
24 North Racine Ave.
Chicago 7, Illinois
MOnroe 6-9604

CINCINNATI
*Amsco Solvents & Chemicals Co.
4619 Reading Road
Cincinnati 29, Ohio
MElrose 1910

CLEVELAND
*Ohio Solvents & Chemicals Co.
3470 W. 140th St.
Cleveland 11, Ohio
CLearwater 1-3770

DETROIT
*Western Solvents & Chemicals Co.
6472 Selkirk Avenue,
Detroit 11, Michigan
WAlnut 1-6350

FT. WAYNE
*Hoosier Solvents & Chemicals Corp.
Nelson Road East
Fort Wayne, Indiana
ANthony 0213

GRAND RAPIDS
*Wolverine Solvents & Chemicals Co.
1500 Century Avenue S.W.
Grand Rapids 9, Michigan
GRand Rapids 5-9111

HOUSTON
*Texas Solvents & Chemicals Co.
8501 Market Street
Houston 15, Texas
ORchard 6683

INDIANAPOLIS
*Hoosier Solvents & Chemicals Corp.
P. O. Box 5586
1650 N. Luett Avenue
Indianapolis 22, Indiana
ATlantic 1361

KANSAS CITY
Thompson-Hayward Chemical Co.
29th & Southwest Boulevard
Kansas City 8, Missouri
TAlbot 2473-4-5-6-7-8

LOS ANGELES
E. S. Browning Co.
2321 Yates Ave.,
Los Angeles 22, California
VAndike 1163

LOUISVILLE
*Amsco Solvents & Chemicals Co.
660 South Fifth Street
Louisville 1, Kentucky
WAbash 3393

MILWAUKEE
*Wisconsin Solvents & Chemicals Corp.
1719 S. 83rd Street
Milwaukee 14, Wisconsin
GReenfield 6-2630

MONTREAL
**Charles Tennant & Co. (Canada) Ltd.
Canada Cement Building
Montreal 2, Quebec, Canada
PLateau 4811

NEW ORLEANS
*Southern Solvents & Chemicals Corp.
1354 Jefferson Highway (Southport)
P. O. Box 4067, Carrollton Station
New Orleans 18, Louisiana
TEmple 4666

NEW YORK
Warwick Wax Company, Inc.
10-10 44th Avenue
Long Island City 1, New York
STillwell 6-1100, Ext. 50

PORTLAND
***Van Water & Rogers, Inc.
3950 N.W. Yeon Avenue
Portland 10, Oregon
CApitol 1721

ST. LOUIS
*Missouri Solvents & Chemicals Co.
419 De Soto Avenue
St. Louis 7, Missouri
GArfield 3495

SAN FRANCISCO
E. S. Browning Co.
1515 Third Street
San Francisco 7, California
DOuglas 2-0631

SEATTLE
***Van Water & Rogers, Inc.
4000 First Avenue South
Seattle 4, Washington
SEneca 5050

SPOKANE
***Van Water & Rogers, Inc.
809 N. Washington St.
Spokane, Washington
RIverside 4183

TOLEDO
*Western Solvents & Chemicals Co.
Central Ave. at Reynolds Road
Toledo, Ohio
JOrdan 0761

TORONTO
**Charles Tennant & Co. (Canada) Ltd.
96 Bloor Street West
Toronto 5, Ontario, Canada
WAlnut 2-5103

VANCOUVER
***Van Water & Rogers, Inc.
650 Industrial Avenue
Vancouver 4, B. C., Canada
PAcific 7578

*Member, Solvents and Chemicals Group
**Member, Tennants Group
***Member, Van Water & Rogers Group

WAX and only WAX
gives your emulsion polish films

3D
GLOSS

with a combination of...

1. CARDIS ONE*
2. SUGAR CANE WAX 700**
3. WARCO 180 WHITE

WHAT IS 3-D GLOSS? — It's that deep, deep lustre and lasting brilliance that only true wax-rich emulsions can create. Plus —

- HIGH AND HARD GLOSS
- SCUFF RESISTANCE AND DURABILITY
- SOIL RESISTANCE AND WATER RESISTANCE
- NON-SLIP AND NON-TACK

Discover 3-D for your product... write, wire or phone for samples, specifications, suggested formulations, technical service TODAY!

A SUBSIDIARY OF Sun CHEMICAL CORPORATION

Warwick Wax Company

SUN CHEMICAL BUILDING, 10th Street and 44th Avenue, Long Island City 1, N. Y., STilwell 6-1100
MIDWESTERN OFFICE: 24 North Racine Avenue, Chicago 7, Illinois, MOnroe 6-9604

*Produced exclusively by Warwick Wax Company, Inc. **Produced exclusively by the Sugar Cane Wax Enterprise for Warwick Wax Company, Inc.

Sulfabenzamide—Toluol, Coaltar

Sulfabenzamide, dms lb. 4.00 - 4.50
Sodium, dms lb 4.10 4.60
Sulfacetamide, fib. dms lb. 4.00 - 4.20
Sodium fib dms lb 5.00 5.20
Sulfadiazine, USP, microcrystals, dms lb.10.60 -11.10
powder, dms. lb.10.25 -10 75
Sulfadiazine-sodium, USP, dms lb.11.25 -11.75
micro crystals dms lb.10 60 -11.10
Sulfaguanidine, USP dms lb. 2.50 - —
Sulfamerazine, USP, micro crystals, lb.10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb.11.25 -11.75
Sulfametnazine, micro crystals, dms. lb. 8.90 - 9.40
powder, dms lb 8 50 9 00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms. lb. 1.70 - 1.90
powder, dms lb. 1.30 - 1.50
Sulfanilamide quinoxaline, veterinary, dms lb. 6.50 - 6.75
Sulfapyridine, NF, powd., bots., tins. lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, micro crystals, dms lb. 3.15 - 3.30
powder, dms. lb 2.80 2 95
Sulfathiazole-sodium, USP, dms lb. 3.05 - 3.20
Sulfur, commercial, flour, bgs, mines 100 lbs. 2.30 - —
bbls., mines 100 lbs. 3.05 - —
lump, bgs., mines 100 lbs. 2.20 - —
bbls., mines 100 lbs. 2.65 - —
Sulfur, crude, bulk, c.l., mines, contract long-ton.26.50 - —
export, f.o.b. vessels, Gulf ports long-ton.31.00 -33.00
domestic and Canada, f.o.b. vessel Gulf port long-ton.28.00 -29.50
refined, flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
rubbermakers, com'l, regular, bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refined, bgs., mines 100 lbs. 3.25 - —
bbls., mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tankcars, same basis lb. .03½- —
Dioxide, liquid, com'l, cyls., works. lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., c.l., dlvd lb. .24 - —
Sulfur monochloride, 35-gal., dms., c.l., frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tank, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton.130.00 - —
ground, ex-dock ton.125.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., c.l., works, frt. equald, lb. 1.25 - —
l.c.l., same basis lb. 1.30 - 2.30
Isopropyl, ester, dms., c.l., works, frt. equald lb. 1.30 - —
l.c.l., works lb. 1.35 - —
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton.32.00 -38.50
Vermont off color grd., bgs., c.l., works ton.14.00 - —
l.c.l., works ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works ton.25.00 -30.00
l.c.l. ton.28.00 -35.00
99.5%, 325 mesh, bgs., c.l. works ton.27.00 - —
l.c.l., works ton.30.00 -32.00
99.95% micronized, bgs., works, ton.36.00 - —
Imp. Canadian grd., bgs., c.l., mines ton.25.25 -35.00
Tallow, edible, tanks, dlvd lb. .13 Nom.
inedible, extra, tanks, dlvd lb. .07¼- —
fancy, bleachable, tanks, dlvd. lb. .07¾- —
No. 1, tanks, dlvd lb. .06¾- —
special tanks, dlvd lb. .06¾- —
sulfonated, 25%, bbls., l.c.l. lb. .08 - —
50%, bbls., l.c.l. lb. .10 - —
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 7.75 - —
Chicago unit-ton. 8.50 - —
Tapioca flour, Brazilian, ex whse, bgs lb. .13 - .14½
Java, AAA, bgs., ex whse., bgs. lb. .07¼- .07¾
AA, bgs., ex-whse lb. .07 - .07½
Tar acid oil, 15-18% dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28% dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½ - .74½
tanks, same basis gal. .62½ - —
Coal (see Coaltar).
Tartar emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, com'l, bbls., c.l. lb. .24½- —
l.c.l. lb. .25 - .25½
NF, cryst., fib. dms lb. .57½ - .62
powd., fib., dms lb. .65 - .69
a-Terpineol, dms., l.c.l., dlvd. E lb. .19 - —
Terpineol, com'l, dms., c.l., South. lb. .13½- —
l.c.l., South lb .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .57 - .75
prime, dms lb. .55 - .70
Propionate dms lb 1.75 - 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram. .79 - —
Propionate, USP, 100-gm. lots, bots gram. .75 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works lb .20½ - .21½
smaller, dms., works lb. .23½ - .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd. E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb.12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb 3.00 - —
And sodium acetate, USP, fib. dms lb 3.55 - 3.60
Salicylate, fib. dms lb 4.00 - —
Sodio-salicylate, NF, fib. dms lb 2.90 - —
Theophylline, annydrous or USP 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo.135.00 - —
Mononitrate, USP, fib. dms kilo.135.00 - —
Thiocarbanilide, dms lb. .50 - .52
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. No stocks
Thiourea, tech., dms., c.l., works lb. .40 - —
l.c.l., works lb. .42 - —
Thorium nitrate, purified, fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots kilo.600.00 - —
Thyme, French, ogs lb. .21 - .25
Spanish, bls lb. .10½- .11
Thymol, fib. dms lb. 2.75 - 3.00
Iodine, NF, dms lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Metal (Straits) lb. .94 - —
Oxide (see Stannic oxide).
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk resistant, bgs, c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
regular, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
metallurgical, natural, granular, bgs., c.l., f.o.b. Jacksonville, Fla ton.120.00 - —
Niagara Falls, N. Y. ton.137.50 - —
5-ton lots, same basis. ton.142.50 - —
ton lots, same basis. ton.147.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., dlvd. E lb. .24½- —
l.c.l., dlvd. E lb. .25½- —
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08¾- —
l.c.l., dlvd lb. .08⅞- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tankcars, works lb. .39¾- —
a-Tocopherol, bots kilo.182.00 - —
Acetate, bots kilo.165.00 - —
o-Tolidine base, distilled, kgs lb. 1.30 - —
Tolu balsam, cns lb. 4.00 - —
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powder, works lb. .70 - —
solid, frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld lb. .60 - .61
Toluol, coaltar, industrial or nitration, tanks, works—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist gal. .35 - —
Cleveland, dist. gal. .34½- .35
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo. gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist. gal. .32 - —
Sparrow's Point, Md. gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, Ohio gal. .32½- .33

your best buy for all your metal degreasing and here's why!

Nialk TRICHLORETHYLENE METAL DEGREASING GRADE
650 LBS. NET
NIAGARA ALKALI COMPANY · NIAGARA FALLS, N.Y.
REGISTERED IN U. S. PATENT

ALL-PURPOSE—Removes from metal parts practically every kind of foreign matter—waxes, oils, greases, gums, tars, chips.

QUICK ACTING—Cleans and dries rapidly. Low boiling range (86.6°-87.8°C, based on standard ASTM tests) permits vaporization at low steam pressure.

THOROUGH—Low viscosity (0.58 centipoises at 20°C) and low surface tension (about 29 dynes per cm at 30°C) assure diffusion into pores and relatively inaccessible openings.

SAFE—Has neither flash point nor fire point; classed as nonflammable at room temperatures, only moderately flammable at higher temperatures (Underwriters' Laboratories rating 3).

CUTS POWER CONSUMPTION—Can be heated by either gas, steam or electricity. Gives concentrated vapor at only 188°F. Specific heat less than ¼ that of water.

CUTS VAPOR LOSS—High vapor density (4.5 times that of air) assures proper vapor level at all times.

STABLE—Neutral stabilizer gives protection not only in the liquid but also in the vapor.

ECONOMICAL—Completely re-usable after distillation. And whether you buy by the drum or the carload, *you pay no extra premium.*

A request, written on your company letterhead, will bring you a free copy of our new Nialk TRICHLOR*ethylene booklet.*

NIAGARA ALKALI COMPANY
60 East 42nd Street, New York 17, New York

NIALK® Liquid Chlorine · NIALK Caustic Potash · NIALK Carbonate of Potash · NIALK Paradichlorobenzene
NIALK Caustic Soda · NIALK TRICHLORethylene · NIAGATHAL® (Tetrachloro Phthalic Anhydride)

Toluol, petroleum, industrial, 2° tanks, works:—
Albany, N. Y. gal. .33 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich. gal. .35 - —
Houston, Tex. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence R. I. gal. .35 - —
Wood River Ill. gal. .35 - —

2,4-Tolylenediamine, cryst., fib., dms., frt. alld. lb. .94 - —
powder, same basis lb. 1.00 - —
Tonka beans, Angostura, cks. lb. 1.65 - 1.80
Brazilian, Surinam, cs. lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns. oz. .42 - —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
smaller lots, works lb. .23 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., dms., c.l lb. .40½- —
l.c.l. lb. .41½- —
tanks lb. .39 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l., same basis lb. .53 - —
tanks lb. .50 - —
Tributylamine, dms., c.l., works. lb. .74 - —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene, dms., c.l., works. frt. alld. E lb. .14½- —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald. lb. .11¼- —
dlvd. E lb. .12¼- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —
dlvd. E lb. .11 - —
Trichloroethane, dms., c.l., works. lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd. lb .36 - —
tanks, dlvd. lb. .33 - —
petroleum, dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21¼- —
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Triethyl phosphate dms., c.l., works lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethylene glycol, dms., c.l., dlvd. E. lb. .18¼- —
l.c.l., same basis lb. .19¼- —
tanks, same basis lb. .16½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .48½- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald., 100% basis, lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald, 100% basis lb. .33 - —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld. lb. .18¼- —
l.c.l., frt. alld. lb. .19¼- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works lb. 5.00 - 5.50
dl-Tryptophane, fib. cns., works. kilo. 165.00 - —
Tuba root (see Cube root)
Tungsten metal, powd., 98.8%, dms., dlvd. lb. 4.93 - —
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots. gram. .75 - .85

U

Urethane, USP, dms. lb. 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, dom., 46% N, bgs., c.l., works. lb. .06 - —
l.c.l., works lb. .06½- —
45% N, bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and E. ton. 154.00 - —
l.c.l., dlvd. ton. 162.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va. ton. 128.00 - —
C grade, tankcars, same basis. ton. 126.50 - —
37 grade, tankcars, same basis. ton. 155.50 - —
Uva ursi leaves, bls. lb. .12 - .14

V

Valerian root, Belgian, bgs. lb. .38 - .40
dl-Valine, dms., works lb. 21.00 - 27.50
Valonia beards, 40-42% tannin, bgs., ex-dock ton. 65.00 - —
cups, 28-30% tannin, bgs., exdock. ton. 49.00 - 50.00
extract, powd., 62% tannin, bgs., exdock, duty extra lb. .09 - .09¼
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins. lb. 9.50 - 10.50
Mexican, cuts, tins. lb. 9.25 - 9.75
whole, tins lb. 9.50 - 10.50
Tahiti, cs. lb. 10.00 - —
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25
ex guaiacol, tins, 25-lb. lots. lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots. lb. 3.00 - —
smaller lots, tins lb. 3.05 - 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E. lb. .17½- —
l.c.l., dlvd. E. lb. .18½- —
tanks, dlvd. E. lb. .15½- —
n-Butyl ether, tech., dms., c.l., works. lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, cyls., frt. equald lb. .26 - —
tanks, same basis lb. .13¼ —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, bot 1.12 - —
75 c.s. bot. 1.56 - —
Vinyl ethyl ether, tech., dms., c.l., works lb. .36 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .32 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).

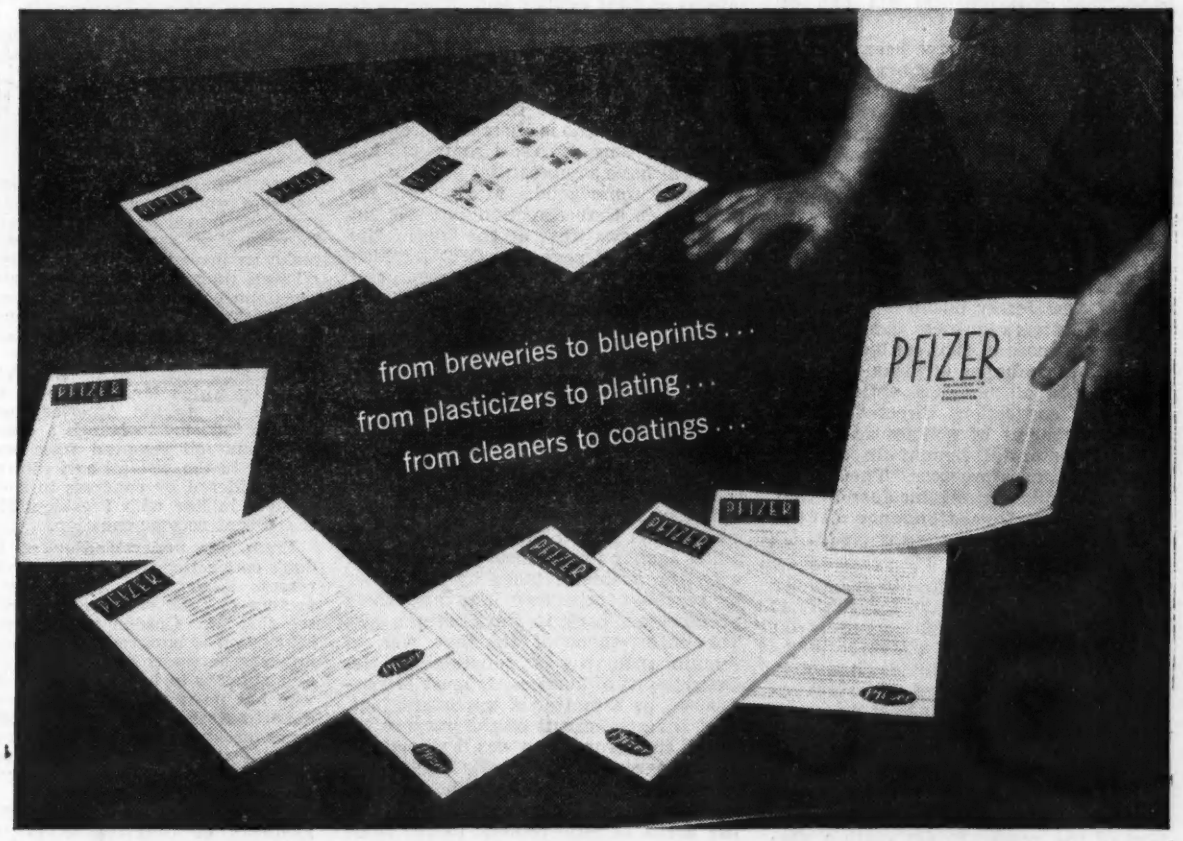
2-Vinylpyridine, dms., works lb. 1.40 - 1.50
Vinyltoluene, dms., c.l., works lb. .20¼- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19 - —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in nat., veg. oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .02 - —
lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A synthetic, acetate crystalline beads, 500,000 A units per gram gram. .07¼- —
liquid in oil, 1,000,000 A units per gram, 1,000,000 units. .12 - —
Vitamin A palmitate, liquid, 1,000,000-1,300,000 A units per gram, 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gram, 1,000,000 units. .12 - —
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12}, crystalline, gm. or 3 gm. vials. gram. 245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram. 185.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2 (see Calciferol)
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin)
K, Active (see Menadione).
K_1, 25 gram bots. gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls lb. 2.55 Nom.
Warfarin, 0.5%, dms., 50 lb lots, dlvd lb. 1.95 - —
25-49 lb. lots, f.o.b., N. Y., or Chi lb. 2.05 - —
5-24 lb lots, cns. f.o.b., N. Y., or Chi lb. 2.15 - —

Wattle bark, fair average, African, bgs., ex dock ton. 92.00 - —
merchantable, bgs., ex dock. ton. 94.00 - —
extract, liquid 35% tannin bbls. lb. .09¼ .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
S. Africa, 60% tannin, ex-dock, duty extra lb. .10 - —
Wax amorphous (see Wax microcrystalline).
Bayberry, bgs., spot lb. .42 - .45
Bees, crude, African, bgs. lb. .54 - .56
Brazilian bgs lb No stocks.
Central American, bgs. lb. .55 - .57
Chilean, bgs. lb. .56 - .57
refined, bleached, white, bricks lb. .73 - .75
slabs lb. .72 - .74
yellow, bricks lb. .60 - .61
slabs lb. .59 - .60
Candelilla, crude, bgs. lb. .74 - .76
refined, bgs. lb. .77 - .79
Powdered candelilla, 20 mesh, 5c per lb. higher; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, bgs., ton lots, lb. .80 - .82
North Country, No. 2, bgs., ton lots lb. .88 Nom.
No. 3, Ceara, crude, bgs., ton lots lb. .82 - .84
refined, bgs., ton lots. lb. .84 - .90
Parnahyba, crude, bgs., ton lots lb. .85 - .87
yellow, No. 1 Ceara, bgs., ton lots lb. 1.12 - 1.14

—Continued on page 58



HERE'S AN OPPORTUNITY TO ROUND OUT YOUR TECHNICAL INFORMATION FILE

Pfizer, as a leading chemical manufacturer with over a century's experience, has amassed a vast quantity of data on the application of chemicals in industry. Don't miss this chance to put the information in these bulletins to work on your problems. Mail the coupon.

CHAS. PFIZER & CO., INC.
CHEMICAL SALES DIVISION
630 Flushing Ave., Brooklyn 6, N. Y.
Branch Offices: Chicago, Ill.; San Francisco, Calif., Vernon, Calif.; Atlanta, Ga.

Manufacturing Chemists for Over 100 Years Pfizer

Order your free Pfizer Technical Bulletins with this handy form

BREWERIES:
☐ *No. 65* . . . Polymyxin —To control bacterial contamination of yeast.
☐ *No. 33* . . . Gluconic Acid to Prevent Beerstone.

BLUEPRINTS:
☐ Pfizer Products as Industrial Chemicals...Oxalates and Citrates for light sensitive papers.

PLASTICIZERS:
☐ *No. 31* . . . Citric Acid Esters as Plasticizers.

PLATING:
☐ *No. 61* . . . Chemicals for Metal Cleaning, Polishing, Plating.

CLEANERS:
☐ *No. 15* . . . Citric Acid and Ammonium Citrate Dibasic to remove rust and scale.
☐ *No. 33* . . . Gluconic Acid and Derivatives.
☐ *No. 34* . . . Oxalic Acid for solubilizing iron oxide.

COATINGS:
☐ *No. 46*...Fumaric Acid for alkyd resins, rosin adducts, polyesters.

MISCELLANEOUS:
☐ Pfizer Products as Industrial Chemicals . . . Acids, salts, sequesterants, plasticizers for varied industrial uses.
☐ *No. 32* . . . Pfizer Products as Sequestering Agents.

CHAS. PFIZER & CO., INC. — DEPT. OP
630 Flushing Ave., Bklyn. 6, N. Y.

Kindly send me the bulletins checked.

Name_____
Title_____
Company_____
Address_____
City_____ Zone_____ State_____
(Please attach to your firm's letterhead)

Oil, Paint and Drug Reporter

Founded October 18, 1871, by William O. Allison
Directed 1900-1942 by Harry J. Schnell

Incorporating Drug, Paint and Oil Trade, The New York Drug Bulletin, The Weekly Drug News, New York Druggists' Price Current, The Soap Makers Journal, Oil and Paint Review, and International Petroleum Reporter.

Member of Audit Bureau of Circulations

Copyright 1954 by
SCHNELL PUBLISHING COMPANY, INC.

WILLIAM S. AUCHINCLOSS, *President*
80 Church Street, New York 7, N. Y., U. S. A.
Tel. REctor 2-6820; Cable Address: Reporter, N.Y.

Volume 165 June 7, 1954 Number 23

Do It Yourself, Business

Somewhere in the maze of ramifications of the currently increasing popularity of all sorts of "do-it-yourself" undertakings there must be a clear picture of what might be done by agriculture, manufacturing, and the distributing of the products of both through the adoption of a larger measure of that idea wherever it is possible—or even promising—that governmental aid can be done away with.

That picture must have been seen by those who have recently organized an institute for business planning, purposed to "help business determine the needs of its market, mold men and women into an effective organization grouped to meet those needs, and in that way build and conserve profit making and capital value."

Some similar enlightenment must be somewhere behind the repetition for the sixth time last week of the conference of New Jersey business executives with the Rutgers business faculty. The primary purpose of that conference has been the interchange of ideas, of information, and of thoughts, with discussions and suggestions directed toward the development of policies and practices of potential benefit in various areas of business progress. There must be some readily appreciable good in that conferring as the attendence at the conferences has more than tripled since the first one was held five years ago.

One thing is certain: in whatever business attempts to do for itself, it must have adequate information on what the doing thereof will do in terms of public relations. The profit motive and even soundly based ideas of responsiveness are not the best approach to prosperity. There is no prosperity in any product that is not consumed, not even under any issuance of speculative demand. Consumption is what counts—and pays—and consumption is a function of the public. Under certain theories of economics, it is encouraging to learn that the steel industry is being told that it must spend $30,000,000,000 over the next thirty years, largely in contributory and productive expansion. But, steel may be almost forgottenly obsolete in thirty years. There is a better message in that given to the purchasing agents at their recent national convention—that business managers must "rise to the challenge of leadership, show the public that its confidence is not misplaced and that free enterprise can provide the good things of life much faster and better than government."

Business can do it itself. The sooner and the broader it starts doing so, the better will everything be.

Messing Up the Tax Scheme

Political expediency, rather than the public service, being what it is as a motivating force in the functioning of the people's elected lawmakers, it is probable that the new tax law which may be pushed through the federal congress before the members must get home to attend to their constituental fences will not be what it should be.

If the income tax provisions of the federal revenue law were laid down—and nailed down—with proper regard for the general public welfare, the national economy would be in much better shape. But, there is some evidence that the current congressional tax-law efforts will result in the widening of the mesh of the collecting sieve and deprive the government of still more of the revenue which it has coming to it.

Of course, there is a big lot of talk about how the easing of this, that, and some other tax burden will increase the productive and the purchasing ability of the country. Little is being said as to how it would also increase the public debt—and necessitate, at least politically, the levying of revenue imposts at other points where the "dry rot" effect on those important forces would not be so pronounced.

But, how many of those who must inevitably pay for the fence-fixing ever say one word to their legislators in corrective criticism? In every respect, politics is far more partisan and personal than patriotic and public.

FTC and Business

There should be much to talk about at the annual spring luncheon meeting of DCAT, June 17, when the chairman of the Federal Trade Commission has finished his scheduled talk on the relations of that agency and business. It is earnestly to be hoped that adequate opportunity will be provided for everyone to say what he wishes to say. It is strongly to be urged that there be a large attendance at the meeting and that everyone who is there has properly prepared himself to do some talking that will have a substantial potentiality of doing some good. Much food for thought in that direction can be got from the news item at the top of the first column of page 3 in OPD for May 31. Correlated topics can be got out of even a cursory review of the functional relations of the Federal Trade Commission and the antitrust division of the Department of Justice.

The Federal Trade Commission has made some progress in the past few years in the general direction of what Woodrow Wilson had in mind when he promoted the "three sister" laws and the concomitant establishment of the commission. It was his idea that the commission should be primarily a counseling agency for business in connection with the problems faced by the latter by reason of the new laws and their predecessors back to the Sherman act. The enforcement of the laws was to remain primarily a function of the Department of Justice. It must be recognized, as a matter of important fact, that the attainment of the purpose for which the commission was designed did not progress satisfactorily along the lines of the trade practices undertaking, and the agency was forced to get into the areas of enforcement to get some measure of respect for the rules which it set up in cooperation with business groups. It has always been true that no group can act, or even speak, for the whole of an industry of which it is, perhaps, a very dominant part.

The Federal Trade Commission is, quite logically, concerned primarily with the handling of complaints — its own complaints—involving application of the laws under which it exists and functions. Much of its business comes under the Robinson-Patman act, and, although the supreme court has backed it in close application with that law, it has broadened its concept of the application of that act so as to decline to prosecute, or complain, when, for example, only one competitor has allegedly been injured by a price discrimination. In another direction, it has also eased the procedure toward consent decrees, something which the Department of Justice also is practicing. But, there still remain many things for business to know about what the FTC chairman says is its purpose—to make it a bit easier for the business world "to know what it may do as well as what it may not do."

More effectiveness and more speed in its handling of complaints are the objectives of the Federal Trade Commission in a scheme of reorganization which is scheduled to be put in effect July 1. The change, it is said, will be one of concept as well as one of structure. For one thing, there will be greater centralization of functioning: the antimonopoly and antideceptive-practices bureaus will be abolished. In their place will be set up a bureau of investigation and a bureau of litigation.

Of particular interest—and importance—to business is the proposed creation of a bureau of consultation which will take over the functions of the bureau of industrial cooperation and will be concerned mainly with efforts to get voluntary compliance with the commission's rules and regulations. This, again, is a move in the direction of the original purpose of the commission, and it can have a large increase of desirable effectiveness if the methods and procedures of cooperation are made what they should be.

Yes; there will be much to talk about at the DCAT meeting. And out of that talk can come much to do, that should be done—on both sides of a government-business relationship which holds a very desirable promise.

OPD Forum

An Outlet for Individual Opinion

(Anonymous communications will not be recognized but a signer's name will be withheld at request.)

Tung Oil Investigation

The Editor,
OIL, PAINT AND DRUG REPORTER,
Sir:—

I am interested to read in the May 24 issue of your Reporter, in your article reporting on the President's recent action in requesting the Tariff Commission to make an investigation of imports of tung oil and tung nuts to determine whether the imports will render the government's price support ineffective, remarks attributed to Mr. John Gordon, secretary of the Bureau of Raw Materials for the American Vegetable Oils and Fats Industries, by which Mr. Gordon in effect issues a call to the American paint and varnish industry to launch a campaign to have tung oil removed from mandatory support in the general agricultural bill to be considered by congress in the current session, in line with President Eisenhower's recent recommendation.

From our understanding of Mr. Gordon's connections and the fact that he represents among his clientele certain importers of tung oil, it is not difficult to see that Mr. Gordon understands where his "bread is buttered." Like some of the importer interests he represents, Mr. Gordon appears to be the kind of American who has no regard for the damage to be done to American industry by indiscriminate foreign competition, as long as he and the importer interests he represents can turn a dollar for themselves out of the deal.

I do not believe, however, that many members of congress or of the great American paint and varnish industry are Americans of Mr. Gordon's stripe, who will join him in his efforts to put American industry out of business for the sake of a bunch of foreign producers.

With the current support price on American tung oil running only at approximately 65 percent of parity, Mr. Gordon's statement is an open admission that the American tung producer cannot compete in our American market against a flood of cheap foreign oil from Argentina without adequate quota protection. The underlying principles involved in this business and the developing trend are matters which might well receive the serious consideration and attention of a great many other American producers, be they engaged in agriculture or industry.

Poplarville, Miss.

MARSHALL BALLARD, JR.
President,
American Tung Oil Association.

For the Bookshelf

PROCEEDINGS — THE FORTIETH ANNUAL MEETING OF THE CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION. Paper; 218 pages, 8½ x 11 in. New York: CSMA, 110 East 42nd street. $7.50.

This is a valuable permanent record of the association's last annual meeting, which took place December 7 to 8 in Washington, D. C. Profusely illustrated with tables, charts and photographs, it contains papers presented at CSMA's various division meetings, committee reports, resolutions and records of other business transacted. Crammed full of detailed technical data, this volume is a must for anyone active in chemical specialties.

Washington Talks It Over

By Ralph L. Cherry

Chief, OPD Washington Bureau

Most large companies in the chemical, petroleum, and rubber industries were having difficulty in recruiting chemists and chemical engineers in the last half of 1953. This was one of the findings of a recent pilot study of "Demand for Personnel in the Chemical Professions" conducted by the Department of Labor in cooperation with the Department of Defense. Other highlights of the survey findings were:—

The three industries under study all rank high in employment of scientists and engineers, but of these three, the chemical industry makes greatest use of scientific personnel. One out of every twelve employees in the surveyed chemical companies was an engineer or scientist, compared with about one out of fifteen employees in petroleum companies and not quite one out of forty in rubber companies.

Scientific employment rose sharply in recent years in the chemical and petroleum industries, considerably less in rubber. Between 1948 and 1953, the chemical companies covered in the study increased their employment of chemists by 28 percent, of chemical engineers by 45 percent, and of other scientists and engineers by 62 percent. For petroleum companies, the corresponding increases were 26, 40 and 44 percent; for rubber companies, 6, 26 and 46 percent.

Increases in employment of chemists and chemical engineers would probably have exceeded those actually achieved in recent years if the supply of personnel had been more adequate. In over half the reporting companies, going or proposed activities were hampered or curtailed between 1948 and 1953 by manpower shortages in the chemical professions. Research and development was the major activity most affected by these shortages; companies had to give production departments priority in recruitment and sometimes had to shift personnel from research to production work, at the expense of promising research projects.

Protein Content of Corn

Blame the weather, not the plant scientists, for the fact that today's corn contains less protein than the open-pollinated varieties farmers grew years ago. It has been charged that the lack of protein was due to the high-yielding corn hybrids which the scientists developed and urged on the farmers, but the Department of Agriculture's research service says the fault lies with lower maximum summer temperatures that have generally prevailed in the corn belt since the mid-1930's.

The reduced protein content of the corn is of major importance to industry and to the cattle raisers. About 87 percent of our annual corn crop is used to feed livestock. When the protein content is low, feed supplements must be provided. The corn protein, zein, is also important as the raw material for making zein fiber, plastics and many other products.

Records show that the protein content of corn has decreased since the mid-thirties from about 11 percent (dry basis) to under 10 percent on the average. Although summer temperatures have much to do with the protein content, other factors such as soil fertility and the use of fertilizers must also be considered.

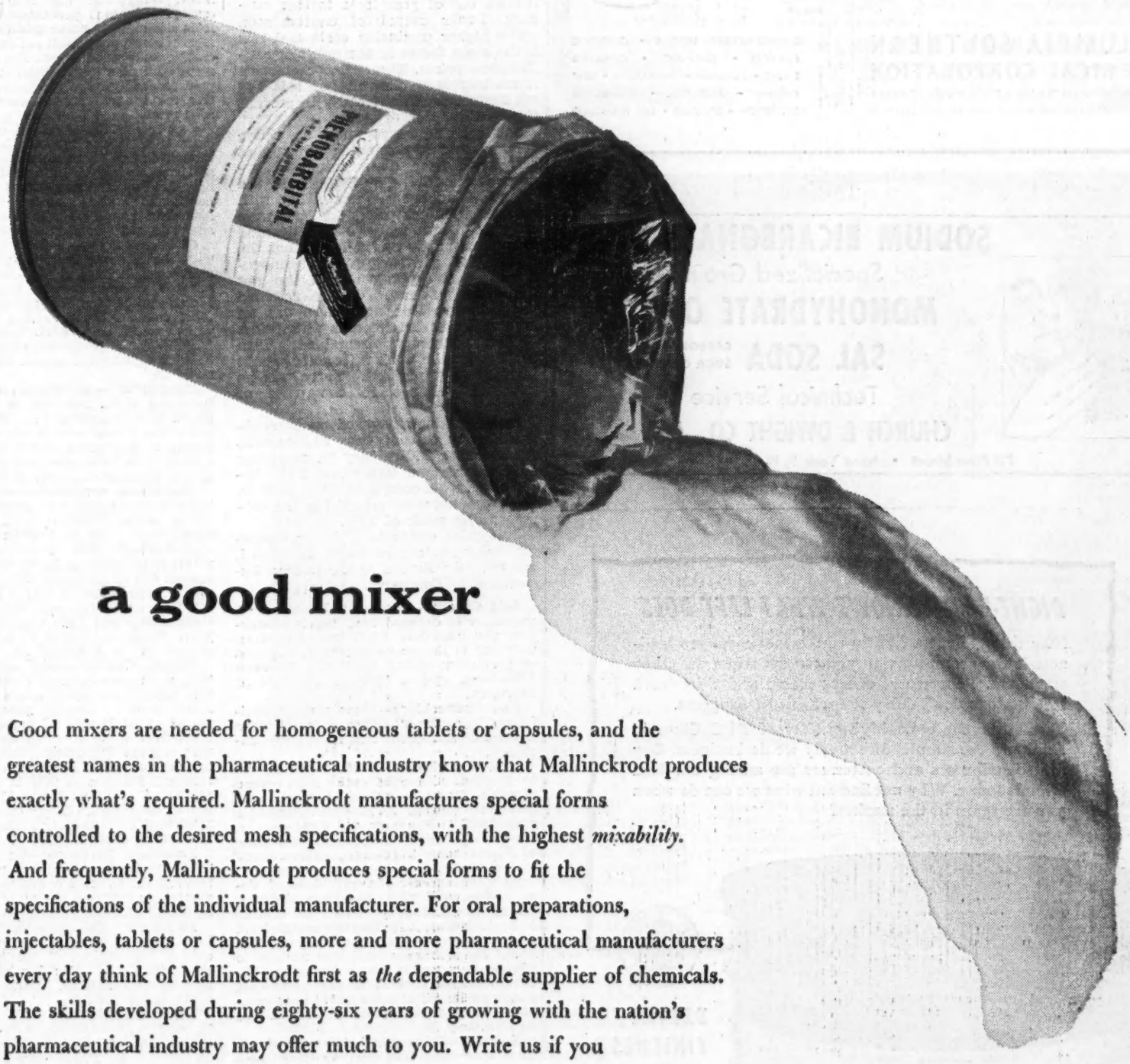
SBA's Public Relations

For a number of years past, it has been the outstanding complaint of congress that government departments and agencies spent too much time and money trying to publicize their operations so as to build up a public following which would insure larger and larger appropriations each year. But it seems now that there is one agency that hasn't done enough advertising in this direction and it too is bringing the wrath of congress down on its head.

This is the Small Business Administration. The house committee on small business found that very few of the press releases issued by the Washington public relations office have been used in newspapers and other media outside of Washington, because they have either been too long, too complicated, or received too late to be of news value.

It is the committee's opinion that if SBA is to be of any real value, it has got to get out and advertise itself and tell the people what it can do in the way of providing credit and other forms of assistance to small business. It has told the agency, in effect, to jack up its publicity staff and get the news out to the regional areas where it will do the most good.

when using fine chemicals . . . to be sure (√) check the source



a good mixer

Good mixers are needed for homogeneous tablets or capsules, and the greatest names in the pharmaceutical industry know that Mallinckrodt produces exactly what's required. Mallinckrodt manufactures special forms controlled to the desired mesh specifications, with the highest *mixability.* And frequently, Mallinckrodt produces special forms to fit the specifications of the individual manufacturer. For oral preparations, injectables, tablets or capsules, more and more pharmaceutical manufacturers every day think of Mallinckrodt first as *the* dependable supplier of chemicals. The skills developed during eighty-six years of growing with the nation's pharmaceutical industry may offer much to you. Write us if you have questions or a problem.

SERVING THE PHARMACEUTICAL MANUFACTURER

Mallinckrodt® Since 1867

MALLINCKRODT CHEMICAL WORKS MALLINCKRODT STREET, ST. LOUIS 7, MO. - 72 GOLD ST., NEW YORK 8, N.Y.

CHICAGO - CINCINNATI - CLEVELAND - LOS ANGELES - PHILADELPHIA - SAN FRANCISCO - MONTREAL - TORONTO

COLUMBIA-SOUTHERN®

SODIUM BICARBONATE U.S.P.

Powdered and Granular
100 lb. Paper bags

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER, PITTSBURGH 22, PENNSYLVANIA

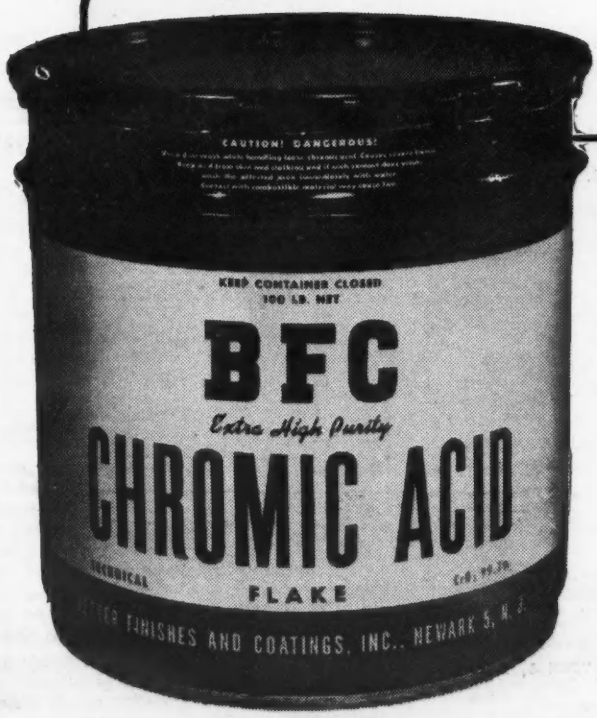
DISTRICT OFFICES: BOSTON • CHARLOTTE
CHICAGO • CINCINNATI • CLEVELAND
DALLAS • HOUSTON • MINNEAPOLIS • NEW
ORLEANS • NEW YORK • PHILADELPHIA
PITTSBURGH • ST. LOUIS • SAN FRANCISCO

SODIUM BICARBONATE, U.S.P.
Specialized Grain Sizes
MONOHYDRATE OF SODA
SAL SODA CARBONATE OF SODA CRYSTALS
Technical Service
CHURCH & DWIGHT CO., INC.
70 Pine Street • New York 5, N.Y. • Phone Digby 4-2181

RIGHT-HAND KNOWS WHAT LEFT DOES

Nice thing about a tightly-run, owner-managed business is the prompt action you can get when the chips are down. Paperwork, order-routine and third-hand instructions don't delay the wheels of progress.

You'll like the extra-high quality of BFC Chromic Acid and the simple, direct way we do business. Our first distributors and customers are among our best friends today. Why not find out what we can do when you are again in the market?



PAINTS · PLASTICS · CHEMICALS

BETTER FINISHES & COATINGS, INC.

268 Doremus Avenue
Newark 5, N. J.

122 East 7th St.,
Los Angeles 14, Calif.

Heavy Chemicals

Price trend was upward last week, the index recording 98.48, compared with 98.40 in the preceding period. Advances were noted in the markets for Glauber's salt, lead metal, salt cake and zinc metal. Some of the largest producers of caustic soda have advanced prices but all have not signified they will go along with the advance although it is presumed in the trade they will. Production of caustic soda has been frequently cutback in an attempt to stem the overflow of chlorine. The program, however, has not worked too well as there is still plenty of chlorine available but caustic soda is leaning toward the tight side and could easily be thrown out of gear by a further cutback. Lower output of caustic soda spells higher producing costs and this is the main factor in the uplift of caustic soda prices. The cure for chlorine is an increased demand but this has not materialized sufficiently to prevent the accumulation of stocks.

Salt cake advanced under an active demand and a tightening of supplies occasioned by a lower output of by-product material. The increase in the price of Glauber's salt was in line with salt cake. Higher prices for lead were established through a steady demand influenced partly by the belief that the government will start a buying movement for stockpiling use in the not far distant future. Copper retained its strong position and there was an improved demand for zinc with prices higher. Mercury remained firm throughout the week with no easement in the supply position. There was no important change in the price of Straits tin.

Paper production based on percentage six-day capacity was 93.6 percent for the week ending May 29, according to the American Paper and Pulp Association. This compared with 94.9R in the preceding week and 91.5 in the corresponding week of 1953.

Production and supply figures appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce.

Acid Chromic—Market well stocked at present with demand fair. March production was placed at 1,207 tons, compared with 928 in the previous month. Supplies at producing plants on March 31 were 1,094 tons, against 1,068 at the close of February.

Acid Hydrochloric—Supply still plentiful and in excess of current demand. More byproduct acid than can be readily absorbed.

Acid Hydrofluoric—Production fully up to demand, with chief outlet high octane gasoline. March output of anhydrous and technical showed 3,775 tons, compared with 3,973 in February and 4,091 tons in March, 1953. Stocks at plants at the close of March were 2,108 tons, against 2,247 on February 28.

Acid Phosphoric—Overall demand described as good, with no scarcity of stocks. March production amounted to 264,185 tons, including 127,470 tons made from phosphorus and 136,715 from phosphate rock. The February total was revised to 234,740 tons and in March last year 214,811 tons were made. Stocks at producing plants on March 31 were 19,944 tons, compared with a revised amount of 24,921 tons on February 28.

Sulfuric—Shipments holding steady in most directions, although the movement to the iron and steel industries is still down, according to some producers. Supply situation generally comfortable.

Ammonium Bicarbonate — Sales maintaining a fair seasonal average, with cracker bakeries taking on stocks. Supply conditions continued comfortable.

Calcium Chloride—Demand active for highway dust control with sales totaling a sizable volume. Producers have been able to meet requirements without difficulty to date.

Carbon Dioxide—March production of liquid and gas was placed at 13,782 tons, compared with 12,469 in February and 14,338 tons in March, 1953. Stocks at producing plants at the close of March were 1,817 tons, against 1,987 on February 28. March output of solid, dry ice, showed 36,866 tons, compared with 34,093 in the preceding month and 38,612 tons in March last year. Stocks at plants on March 31 were 1,747 tons, against 2,382 on February 28.

Price Trends

Advanced

Glauber's salt, 15c. per 100 lbs.
Lead metal, ¼c. per lb.
Salt cake, $3 per ton.
Zinc, prime western, ½c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 5, 1953
98.48	98.40	98.39	97.58

(For Current Prices see page 9)

Chlorine—Long stocks have continued to keep this market out of balance. Demand while fair has not been broad enough to absorb production readily and it is difficult to make additional adjustments in output without seriously affecting caustic soda production. The inability to move chlorine production rapidly was pointed out by some producers as the motive for the current increase in caustic soda prices.

Copper Sulfate—A slight gain in agricultural sales was reported last week, although demand is still running below the seasonal average. Industrial shipments have held up well and export demand has continued active, mostly from South American countries. Present supply is adequate, with domestic prices firm.

Glauber's Salt — Priced higher along with the advance in salt cake. Technical anhydrous in bags is now listed at $2.50 for 100 pounds, carlots, delivered east. March production amounted to 12,629 tons, compared with 11,612 in the previous month and 16,923 tons in March, 1953. Stocks at producing plants on March 31 were 3,182 tons, against 3,844 on February 28.

Phosphorus — Production of elemental, including white and red, in March, was 23,550 tons, compared with 20,886 in February and 21,890 tons in March last year. Stocks at producing plants on March 31 amounted to 7,662 tons, against 7,628 tons at the close of the preceding month.

Phosphorus Oxychloride—Market position reported steady with supply aedquate. March output showed 1,225 tons, compared with 1,215 in February and 1,168 tons in March, 1953. Stocks at producing plants at the close of March were 420 tons, against 475 on February 28. The production of trichloride in March amounted to 920 tons, compared with 896 in the previous month and 1,061 tons in March last year. Stocks on March 31 were 173 tons, against 193 on February 28.

Potash, Caustic—Sales volume leaned toward improvement for liquid last week. The supply remained adequate to meet requirements. March production was placed at 6,076 tons of liquid containing 1,385 tons of solid, compared with 5,494 tons of liquid including 1,036 tons of solid in February and 7,815 tons of liquid containing 1,680 tons of solid in March, 1953. Stocks of liquid on March 31 were 3,647 liquid including 2,576 tons of solid, against 3,099 tons of liquid containing 2,837 tons of solid on February 28.

Potassium Carbonate—No unusual activity last week. In some producing quarters a slight increase in demand from glass plants was reported but there appeared to be plenty of room for improvement.

Potassium Chlorate—Match factories have taken on stocks when inventories required replenishment but demand for other industrial uses has not exceeded moderate dimensions. Prompt shipments continued available.

Potassium Stannate—Platers are taking on this chemical for current wants but the volume of business placed was a bit off last week. Prices were sustained because there was not enough variation in Straits tin quotations to affect the market for potassium. Producers named 68.2c. to 74.8c. per pound, freight allowed east. Prices are based on tin at 94c. per pound.

Salt Cake—Market advanced $3 per ton to $22 per ton f.o.b. the works, bulk in carlots. Byproduct material has dropped off during the past few weeks keeping the supply down while demand has increased, particularly from kraft paper mills.

Soda Ash—Shipments of light ash have been well sustained since the turn of the month with a slight drop in the movement of dense ash which may be of temporary existance. The overall market has maintained a satisfactory state of balance over the first five months of the year.

Soda, Caustic — Prices have been advanced 15c. per 100 pounds by some of the largest producers. The advance applies to spot sales and to contracts on July 1. Trade estimates show that production is

For Late Market Developments, See Page 4

down 15 to 20 percent in an effort to stem the overflow of chlorine. So far the caustic supply has been curbed but stocks of chlorine are still long with demand running below the current production level. Labor costs are mounting under the lower output of cautsic soda which are reflected in the price advance.

Sodium Bicarbonate — Producers are moving this chemical in fair quantities and would like to move more as the supply is ample. March production is placed at 11,807 tons of refined, compared with 8,448 in the previous month and 9,489 in March, 1953. Stocks at the end of March were 3,002 tons, against 3,183 on February 28.

Sodium Chlorate—Shipments for weed control formulations have been satisfactory to date but overall demand has not over-taxed production. The March output showed 3,080 tons, compared with 2,773 in February and 3,811 tons in March, 1953. Stocks held at producing plants were not available.

Sodium, Metallic—March production amounted to 10,402 tons, compared with 9,673 in the preceding month and 10,608 in March, 1953. Stocks at producing plants on March 31 were 2,881 tons, against 2,769 on February 28.

Sodium Phosphates—Monobasic production was down to 506 tons in March, compared with 639 in February and 1,830 tons in March, 1953. Stocks at producing plants on March 31 were 216 tons, against 272 on February 28. Dibasic output showed 2,362 tons in March, against 2,006 in the preceding month. Stocks at the close of March were 1,359 tons, compared with 1,413 on February 28. Production of tribasic in March was 4,560 tons against 3,873 in February and 4,862 tons in March last year. Stocks on March 31 were 1,850 tons, compared with 1,592 at the close of the previous month. Meta output amounted to 4,863 tons in March, compared with 4,507 in February and 3,933 tons in March, 1953. Stocks at the close of March were placed at 1,704 tons, against 1,756 on February 28.

Sodium Silicate—Demand reported fair to good while stocks have been kept adequate. March production covering soluble silicate glass, liquid and solid anhydrous amounted to 58,458 tons, compared with 49,184 in February and 49,941 tons in March last year. Stocks at producing plants on March 31 were 69,385 tons, against 67,612 on February 28.

Sodium Stannate—The edge was slightly off demand last week. There was no change in prices and there seemed to be a disposition to keep inventories down prior to the vacation season. Production has kept the market in good supply with sellers naming 54.8c. to 60.2c. per pound for immediate shipment, freight allowed east. Prices are based on tin at 94c. per pound.

Sodium Sulfate — March production of anhydrous refined amounted to 19,821 tons, compared with 16,448 in the preceding month and 19,151 tons in March, 1953. Demand was described as fair to good with supplies adequate to meet requirements. Stocks at producing plants on March 31 were placed at 3,562 tons, against 33,885 on February 28.

Sodium Sulfide—Stocks are not excessive at the present time although in producing quarters it was stated that the market is in a fair degree of balance. March production showed 3,213 tons of concentrated, compared with a revised total of 2,708 in February and 2,888 tons in March, 1953. Stocks at producing plants on March 31 were 4,145 tons, against a revision to 4,003 tons at the close of February. Production of other grades including liquid and crystals was 1,892 tons in March, compared with a revised total of 2,219 tons in the preceding month.

Sulfur Dioxide — Production during March amounted to 4,238 tons, compared with 3,846 in February and 4,220 tons in March last year. Stocks at producing plants on March 31 were 1,784 tons, against 1,389 on February 28.

Nonferrous Metals

Aluminum—Shipments of aluminum forgings, pressings, and impact extrusions in 1953 amounted to 113.3 million pounds, an increase of 19.1 million pounds or 20 percent, over the 94.1 million pounds shipped in 1952, according to a release issued jointly by the Business and Defense Services Administration and the Bureau of the Census, Department of Commerce. Forging stock used by forging plants in the production of forgings, pressings, and impact extrusions totaled 152.7 million pounds in 1953, 13 percent greater than the 135.5 million pounds consumed in 1952. Consumption of forging stock averaged 1.348 pounds for each pound of finished product shipped in 1953 and 1.440 pounds in 1952. These data represent complete coverage of shipments of aluminum forgings, pressings, and impact extrusions and were collected and compiled from reports on Forms NPAF-168 and BDSAF-239, "Aluminum Forgings, Pressings, and Impact Extrusions." No data for collapsible tubes are included in this report. For 1953, a total of 45 companies operating 51 plants reported in this survey.

Copper—Strong consumer demand has kept the market firm. Trade estimates placed sales for May shipment around 100,000 tons and June shipments to date at 30,000 tons and increasing steadily. The London market was also firm with buyers taking on both spot and forward shipments. The domestic market closed at 30c. per pound for electrolytic delivered Valley basis.

Lead—Priced higher at 14¼c. per pound New York and 14.05c. at St. Louis. The advance was attributed to an excellent consumer demand and an upward movement on the London Metal Exchange establishing prices above the American parity. Prospects of the U. S. government buying lead under a new long-term contract and the possibility of higher tariffs were factors also contributing strength to the market.

Magnesium—A slight drop in magne-

Stauffer CHEMICALS SINCE 1885

CARBON BISULPHIDE

*Aluminum Sulphate
Borax
Boric Acid
Boron Trichloride
Carbon Tetrachloride
Caustic Soda
Chlorine
Citric Acid
*Copperas
Cream of Tartar
*Ferric Sulphate
Fire Extinguisher Fluid
Insecticides and Fungicides Aldrin, Dieldrin, Parathion, Toxaphene and Chlordane Formulations.
BHC and Formulations
Captan 50-W (Fungicide 406)
DDT and Formulations
Grain Fumigants
Lindane and Formulations
Sulphenone (Miticide)
Muriatic Acid
*Nitric Acid
Perchlorethylene
Potassium Nitrate
Rochelle Salt
Silicon Tetrachloride
*Sodium Silico Fluoride
Sodium Hydrosulphide
Sulphur (processed) For all uses
Sulphur-Insoluble (in CS_2) (Special-purpose rubber-making)
Sulphur—Rubbermakers
Sulphur Chlorides
Sulphuric Acid
*Superphosphate
Tartar Emetic
Tartaric Acid
Titanium Tetrachloride
Titanium Trichloride Solution
*"Zel" Dry Cleaning Fluid

*West Coast Only

STAUFFER CHEMICAL COMPANY

380 Madison Avenue, New York 17, N. Y. ● 221 No. La Salle Street, Chicago 1, Illinois ● 326 So. Main St. Akron 8, O. ● Apopka, Florida ● 824 Wilshire Boulevard, Los Angeles 14, Calif. ● 636 California Street, San Francisco 8, Cal. ● North Portland, Oregon ● Box 7222, Houston 8, Texas ● Weslaco, Texas

THE VERSENES® "Versene" is the registered trade mark of certain synthetically prepared polyamino acids and their salts. As products of modern chelate chemistry, they form soluble, non-ionic chelates with polyvalent metallic ions and completely change their properties so that they can no longer react with other materials and be precipitated from solution by common precipitating agents.

NOW THERE ARE ELEVEN

VERSENE REGULAR (The original Versene) inactivates all metallic ions but is not especially effective for chelating iron in *alkaline* solutions, yet it is the best iron chelating agent for use in *acidic* solutions.(liquid or powder).

VERSEN-OL is the trisodium salt of N-hydroxyethylethylene diamine triacetic acid*. It is a very effective agent for chelating trivalent iron from pH7 to pH10. It forms strong 1:1 ferric chelates. After chelating the iron it will then chelate other heavy metal or alkaline earth ions.(liquid or powder).

VERSENE Fe_3 SPECIFIC is the most powerful complexing agent known for *iron* in the alkaline pH range. It also chelates copper, nickel, cobalt and zinc (47% solution).

VERSENE Fe_3 is a combination of VERSENE and VERSENE Fe_3 SPECIFIC. It complexes both iron and other metallic ions.(liquid or powder).

VERSENE-T complexes ferric and divalent metal ions including hard water salts in *any* caustic solution (55.5% solution).

VERSENE-9. This is the trisodium salt of EDTA. It has a pH of 9.3 in solution at 1% concentration. 1 gram complexes a minimum of 242 mgms. of $CaCO_3$. Its general chemical reaction is identical to Versene Regular.

VERSENE IRON CHELATE is an agricultural Versene to correct iron deficiency and cure chlorosis in citrus and other green growth occurring in *acid* soils. It is the disodium iron chelate of EDTA absorbed into inert vermiculite for convenience in application (50 lb. bags).

VERSEN-OL IRON CHELATE for agriculture is the monosodium iron complex of Versen-OL. It contains 19% min. of iron chelate calculated as NaFe EEDTA*, (4.29% Fe as Fe_2O_3). Balance inert. Cures iron deficiency in plants growing in *any* soil (50 lb. bags).

DISODIUM VERSENATE DIHYDRATE (dry powder) an Analytical Reagent grade of Versene Regular for research and analytical purposes.

VERSENATE INDICATOR (alcohol solution). Color indicator for Versenate method of water analysis.

CALCIUM DISODIUM VERSENATE (25% solution). Chemically Pure grade material for use as stabilizers in drugs, vitamins, pharmaceuticals.

LEAD DISODIUM VERSENATE (34% solution). Preformed complex for use in vinyl plastic emulsions.

The Versenes give you mole-for-mole control over cations in solution. They are made only by the Bersworth Chemical Company under processes originated, developed and patented by F. C. Bersworth. Quality-control over manufacture is so high that uniform complexing power is guaranteed.

VERSENES® — MADE FOR YOU — Gladly will we share with you our quarter-century of experience in pioneering the polyamines. Samples for experiment will be provided on request and without obligation. Ask for Technical Bulletin #2. Chemical Counsel available. Write Dept. F. Send for prices.

*PATENT PENDING

VERSENE* WATER TEST KIT. Tells total hardness in 2 minutes. Accurate to 1 gr. per gal. Versenate method. Complete with instructions $5.00 postpaid.

"Chemistry's most precise chemicals"

KEY TO CHELATION

BERSWORTH CHEMICAL CO.

FRAMINGHAM, MASSACHUSETTS

WAREHOUSE STOCKS

Chas. S. Tanner Co., Liberty Life Bldg., Charlotte, N. C.
Kraft Chemical Co., Inc., 917 West 18th Street, Chicago 8, Illinois
Siegel Chemical Co., Inc., One Hanson Place, Brooklyn 17, New York
George Mann & Co., Inc., 251 Fox Point Boulevard, Providence, R. I.
Berardi & Page, Inc., Houston, Dallas, Corpus Christi, New Orleans, St. Louis, Wichita, Oklahoma City, Tulsa, Kansas City, Mo.
Braun-Knecht-Heimann Co., San Francisco, Calif.
Van Waters & Rogers, Inc., Seattle, Wash., & Portland, Ore.
Braun Corporation, Los Angeles, Calif.
Braun-Knecht-Heimann Co., Salt Lake City, Utah

EUROPEAN MANUFACTURING AGENT: REXOLINFABRIKEN AKTIEBOLAG, HELSINGBORG, SWEDEN.

TURNER CHEMICALS

Acetanilide

Ferric Chloride
(Anhydrous)

Mono Sodium Phosphate

JOSEPH TURNER & CO.
RIDGEFIELD, NEW JERSEY
83 EXCHANGE PLACE, PROVIDENCE, R. I.
435 N. MICHIGAN AVE., CHICAGO 11, ILL.

CUPRIC CHLORIDE
ANHYDROUS – DIHYDRATE
HENRY BOWER CHEMICAL MFG. CO.
30TH AND GRAYS FERRY RD. PHILADELPHIA 46, PENNA.

CHEMICAL IRON
GROUND TO SPECIFICATION
GAS PURIFYING MATERIALS CO. INC.
3-15 26th Avenue, Long Island City 2, N. Y.

Which of these

Westvaco MAGNESIAS

can best serve you?

Westvaco offers you the industry's longest line of magnesias for the broadest range of applications . . . from powdery, highly-active lightburn to dense, refractory deadburn. Whatever your magnesia needs, get our prices and delivery quotations from plant or distributors' stocks.

SEND FOR FREE BOOKLET

Write or phone our nearest office for an 8-page folder "SEAWATER and MINED MAGNESIAS" containing descriptions, properties and current uses of over a dozen different WESTVACO Magnesias.

SPECIALTY MAGNESIAS
#2661 Chloride-Free
#2662 Select
#2665 Chemical Grade

ADSORPTIVE MAGNESIAS
#2641 Iodine Number 50-70
#2642 Iodine Number 80 min.
#2652-S Iodine Number 85 min.

OXYCHLORIDE GRADE
Flooring Grade
#2664 Seawater (faster setting)

SEAWATER PERICLASE
S-90 for refractory brick
S-93 for monolithic linings

SEA SORB® the new, low cost, highly-active Westvaco Magnesia (Powdered or Granular)

WESTVACO CHEMICAL DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
GENERAL OFFICES • 161 EAST 42nd STREET, NEW YORK 17
CHICAGO, ILL. • CINCINNATI, OHIO • CHARLOTTE, N. C. • DENVER, COLO.
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.
PHILADELPHIA, PENN. • PITTSBURGH, PENN. • VANCOUVER, WASH.

sium primary ingot production was recorded in April. A total of 6,203 tons of primary magnesium ingot was produced; this being 5 percent under March, 1954, production of 6,545 tons. As has been the case since July of last year, production is off in relation to the 1953 figures when government plants were in operation. The drop for April 1954 against April 1953 was 38 percent. For the first time in several months, shipments of wrought magnesium product declined. April 1954 shipments of 446 tons fell 21 percent below the revised March shipments of 568 tons. In this material, too, 1954 shipments are off badly in relation to 1953 when the air force program was near its peak. Wrought product total shipments were down nearly 50 percent in relation to the 854 tons shipped in April 1953. With the opening of the new Dow magnesium processing plant in Madison, Illinois, in May, it is expected that shipments of wrought products will turn upward again to resume the trend which has been apparent since the early fall of 1953. These figures are released by the Magnesium Association based on information received from the U. S. Bureau of Census and the U. S. Bureau of Mines.

Mercury—Prices were sustained at the previous level throughout the past week. The spot supply remained definitely short with consumers confining purchases to actual wants. The continued scarcity of available stocks has kept the undertone of the market strong. Sellers named a spread from $265 to $271 per flask for spot.

Tin—Price fluctuations last week were again confined to narrow limits with trading moderate and no apparent desire to purchase except for actual wants. Prices centered around the 94c. level for sheet tin with fractional changes both up and down. The senate has voted to keep the Texas City tin smelter in operation until June 30, 1955. This is the only tin smelter on this continent.

Zinc—Buying interest was of broader dimensions last week. Both spot and future shipments commanded increased attention and the market developed a strong tone. Continued buying of futures induced by rumors of a government stockpiling program installed strength into the market situation. Prime western closed higher at 11c. per pound East St. Louis and 11½c. delivered New York.

Dow Retirement Program To Provide Added Income

Dow Chemical Company, Midland, Mich., has announced a plan to provide added retirement income for its salaried employees. Known formally as the "Supplementary Retirement Plan," the program has been nicknamed "SRP." More than 2,000 Dow employees are immediately eligible for membership, and hundreds more will normally become eligible each year.

The plan is separate and distinct from the Dow pension and profit-sharing plan and becomes an additional source of retirement income to which the company contributes for salaried personnel. The plan is said to be unique in that all contributions will be invested in Dow common stock, making the individual benefits derived from it directly dependent on the success of the company.

Monsanto Names Dr. Cave To Chemical Research Post

Dr. William T. Cave has been promoted to the position of group leader in the chemical research department of the research and engineering division of Monsanto Chemical Company, at Dayton, Ohio. Dr. Cave will be in charge of the spectroscopic activities of the department. Before joining Monsanto in 1951, he was employed by Shawinigan Chemicals Company in Quebec.

Bureau of Foreign Commerce Position Goes to Robert Simpson

Robert E. Simpson, has been appointed director of the Office of Economic Affairs of the Bureau of Foreign Commerce. Mr. Simpson is a career employee of the Department of Commerce and served previously as deputy assistant director of the old Office of International Trade.

Trade Briefs

Lion Oil Company, El Dorado, Ark., has completed a discovery oil well in Wilbaux County, Mont.

Pennsylvania Salt Manufacturing Company, Philadelphia, has named Robert M. Burford sales supervisor of the newly-created Buffalo, N.J., district of the firm's metal processing department.

ORONITE CHEMICAL COMPANY

Announcing
nationwide availability!

PHTHALIC ANHYDRIDE

Expanded production! Immediate shipments!

Oronite is a dependable source for high-quality P. A. because of our control of the basic chemical intermediate.

Contact any Oronite office for complete information

ORONITE CHEMICAL COMPANY
38 Sansome St., San Francisco 4, Calif. • 714 W. Olympic Blvd., Los Angeles 15, Calif.
30 Rockefeller Plaza, New York 20, N. Y. • 600 S. Michigan Ave., Chicago 5, Ill.
Mercantile Securities Building, Dallas 1, Texas 2906

Colloid Chemists Convene This Month at Rensselaer

The chemistry of television screen manufacture, the role of chemical adsorption in photography, and studies of the detailed structure of reclaimed rubber will be three of the topics reported in scientific sessions of the twenty-eighth national colloid symposium, to be sponsored by the American Chemical Society's division of colloid chemistry June 24 to 26 at Rensselaer Polytechnic Institute, Rensselaer, N. Y.

The effect of atom-smashing treatment on blood plasma extenders, chemical agents that "thicken" lubricating oil, and studies of the physical nature of asbestos fibers will also be discussed in the thirty technical papers to be presented at the three-day meeting, of which Dr. W. O. Milligan of Rice Institute, an authority on chemical catalysts and the theory of colloids, will be general chairman.

Prof. Herman F. Mark, internationally known authority on fibers, plastics and rubber and director of the Polymer Research Institute in the Polytechnic Institute of Brooklyn, will present the main address of the symposium at a dinner on Friday night, June 25. Dr. Mark's subject will be "Recent Developments in Polymer Research."

Present Status of Field

"The Present Status of Colloid Chemistry in University and Industry" will be the title of a round-table discussion Friday afternoon preceding the symposium dinner. "Colloid and Surface Phenomena in the Preparation of Cathode-Ray Screens" is the title of a paper by Prof. J. Fred Hazel and George L. Schnable of the University of Pennsylvania, to be presented at the opening session of the meeting Thursday morning.

"The Effect of High Velocity Electrons on Dry Dextran" will be described in a paper by E. P. Price, W. D. Bellamy, and E. J. Lawton of the General Electric Company, Schenectady, N. Y., to be presented on Thursday afternoon. Dr. Sydney Ross, professor of colloid chemistry at Rensselaer, will speak on "Non-soap Thickeners of Lubricating Oils" on Friday morning. Co-author of the paper will be Prof. Harold F. Schaeffer of Valparaiso University. Dr. Harold T. Byck of Shell Oil Company, Houston, Tex., will preside over the round-table discussion and dinner program on Friday.

Report on Asbestos

Dr. Frank H. Healey of Lehigh University and George J. Young, consulting editor of the *Engineering and Mining Journal* and lecturer on mining in the division of mineral technology of the University of California, will open the Saturday program with two reports on the structure and properties of asbestos.

Dr. Thomas H. James and Dr. Waldemar Vanselow, research chemists of the Eastman Kodak Company, Rochester, N. Y., are co-authors of a paper on "Cooperative and Competitive Absorption in the Photographic Process" to be presented at the closing session Saturday afternoon.

Delaware Chemicals Appoints 2 District Sales Managers

Delaware Chemicals, Inc., Staten Island, N. Y., has appointed Herman Pfeifer district sales manager of the metropolitan New York area and Fred S. Byerly district sales manager serving the midwest. Mr. Pfeifer, recently president of Eastern Record Manufacturers and an industrial consultant, has served in research and technical sales capacities with such companies as Plaskon Division of Libby-Owens-Ford Company, Paramet Chemicals, American Cyanamid Company and Nopco Chemical Company. Mr. Byerly's background includes service with Keystone Varnish Company, Sherwin-Williams Company, U. S. Industrial Chemicals, Inc., and Lawter Chemicals, Inc.

Shield Adds Directors

Three directors have been added to the board of Shield Chemical Corporation, Verona, N. J. They are:—Dr. Emil A. Milost, research director of the corporation, who has been advanced to vice-president; Herbert E. Herrman, a partner in the New York stock exchange firm of H. E. Herrman & Cohen; and David Hilowitz, an attorney.

Arabol Post Goes to Weingartner

Arabol Manufacturing Co., New York, has announced the election of Henry E. Weingartner as executive vice-president. Mr. Weingartner joined the firm in 1931. He has been variously concerned with production, plant coordination, special products development, sales and the direction of the export department. His father, George H. Weingartner, served as secretary and purchasing agent up to the time of his death. His uncle, Edward Weingartner, founded the firm in 1885.

Canco Atlantic Division Sales Manager Named

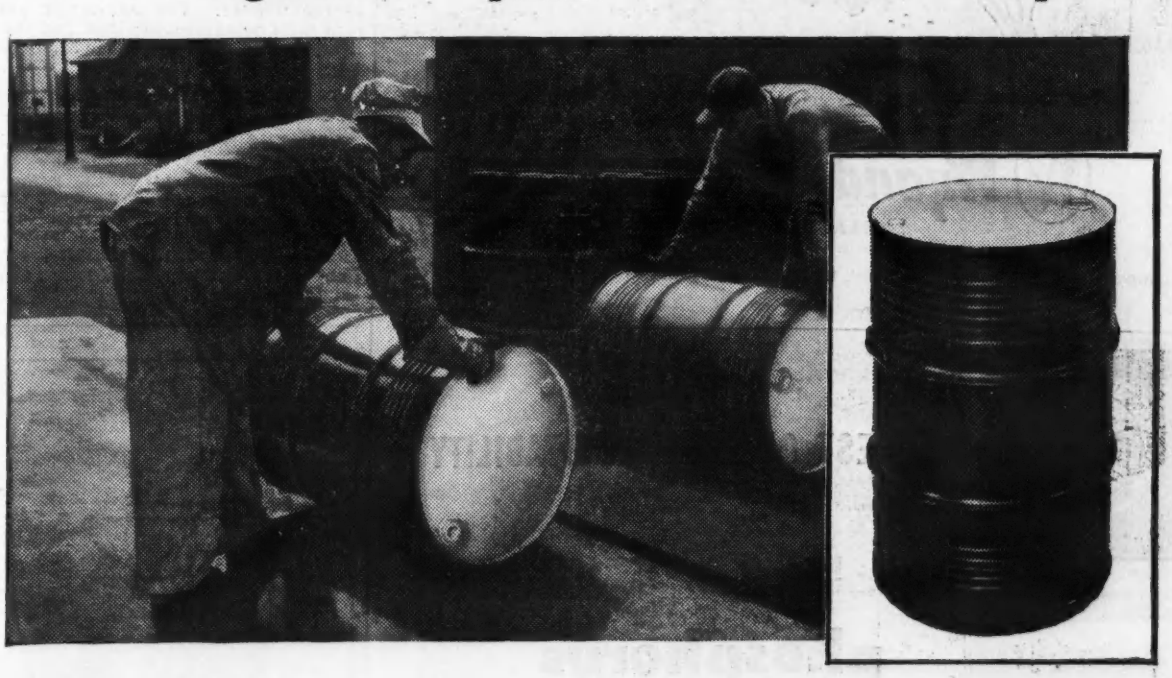
Daniel T. McFadden, assistant sales manager of American Can Company's Atlantic division, has been appointed manager of sales for the division to succeed George F. Henschel. Mr. Henschel has been named general manager of sales in the company's New York office. Mr. McFadden joined Canco in 1937. In 1950 he was named a commodity manager at Atlantic division headquarters in New York, and was appointed assistant division manager of sales in 1952.

Joffe Opens Office in New York

J. D. Joffee, who has been a member of the technical-economic survey group of Allied Chemical & Dye Corporation, New York, has opened an office at 50 East 42nd street, New York. Mr. Joffe offers an information and consulting service based on technical, scientific and economic literature.

CCI
BONE OIL
Tank Car Lots—55 Gallon Drums
Five Gallon and One Gallon Cans
CONSOLIDATED CHEMICAL INDUSTRIES INC.
ADDRESS INQUIRIES TO: 640 MELLIE ESPERSON BLDG., HOUSTON 2, TEXAS,
111 SUTTER STREET, SAN FRANCISCO 4, CALIF., OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.
CCI

Want to carry quality control right into your customer's shop?



You can . . . with USS STEEL DRUMS

THERE's no need to stop quality control when products leave your plant. With USS scale-free, rust-inhibited Drums you can carry it *all the way* . . . when your customer is ready to use your products, they will be as clean and uncontaminated from scale, dirt, grease and rust as when they were packaged.

Whether your products are to be shipped long distances, stored for a long time, or both, their quality is well guarded in safe, sturdy USS Steel Drums. They're safe because a tight rust-resisting coating is applied over a surface that's been completely cleaned. They're sturdy because they're made of high-grade USS Steel. USS Steel Drums are better for you . . . better for your customers.

• United States Steel Products fabricates stainless, galvanized, tinned, painted and decorated drums and pails. Furnished in a wide range of capacities with a variety of fittings and openings to fit your particular requirements.

UNITED STATES STEEL PRODUCTS DIVISION
UNITED STATES STEEL CORPORATION
DEPT. 564, 30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
Los Angeles and Alameda, Calif. • Port Arthur, Texas • Chicago, Ill.
New Orleans, La. • Sharon, Pa.

Write for free brochure

For additional information on this quality steel drum write to us at New York for this full-color brochure, "USS Drums—100% Scale-free and Rust-inhibited."

"It's Better to Ship in Steel"

USS STEEL DRUMS
UNITED STATES STEEL

WYANDOTTE CHEMICALS

CHEMICALLY UNIFORM!

PHYSICALLY UNIFORM —MANY GRADES, ANHYDROUS AND LIQUID!

DRUM OR CARLOAD LOTS!

TECHNICAL SERVICE WHENEVER YOU NEED IT!

PROMPT, ECONOMICAL DELIVERY FROM NEARBY PLANT AND WIDESPREAD DISTRIBUTOR STOCKS!

Wyandotte CAUSTIC

For more satisfactory Caustic . . . order Wyandotte today!

Wyandotte CHEMICALS

HEADQUARTERS FOR ALKALIES

WYANDOTTE CHEMICALS CORPORATION, WYANDOTTE, MICHIGAN • *Offices in Principal Cities*

Nickel in Small Amounts Need Not Be Reported

Holders of primary nickel in an amount of 100 pounds or less, obtained under a defense priority rating and later found unusable for a defense contract, are relieved from reporting such quantities to the ferro-alloys branch of the Business and Defense Services Administration by an amendment to BDSA regulation 2 issued last week.

This exemption from reporting requirements of the regulation is provided for in amendment 2 of the regulation, effective immediately. The amendment does not, however, relieve holders of such small quantities of nickel from other provisions of the regulation. The action will have the effect of permitting contractors having such small quantities of scarce primary nickel; which cannot be used for the purpose for which the priority rating was issued, or for any other defense contract then on hand, to otherwise use or to dispose of the material without first obtaining consent from BDSA. Amendment 2 to regulation 2 modifies an action taken by BDSA on March 31, which was designed to eliminate the possibility that a nickel user whose defense contracts were cancelled might divert the scarce strategic metal to non-defense purposes.

Sulfur Funds to France

Foreign Operations Administration has granted an allotment of $1,400,000 to France for the purchase of sulfur with FOA funds. The authorization was contained in purchase authorization No. 38-6406-00-4205 and prescribes the United States and possessions and Latin America as the sources. The contracting period runs until September 30, 1954, and the delivery period until December 31, 1954.

Great Lakes Oil Authorizes Increase In Stock to Facilitate Expansion

Shareholders of Great Lakes Oil & Chemical Company, Grand Rapids, Mich., have approved increasing the authorized stock of the company by 2,000,000 shares. The increase has been planned to help provide for contingencies that may arise from a contemplated expansion of the company's subsidiary, Great Lakes Chemical Corporation.

FMC Unit Vice-Pres.

Dr. Carl F. Prutton has been appointed vice-president and technical director of the chemical divisions of Food Machinery Chemical Corporation, and will be located at the divisions' New York offices. Following government service during World War II, Dr. Prutton joined Mathieson Chemical Corporation, Baltimore Md., where he served as vice-president, director of operations, engineering and research and as an officer and director of a number of Mathieson subsidiaries.

International Paper Company To Start Sack Plant Operations

A new converting plant for the production of multiwall sacks will be opened in Mobile, Ala., by the Bagak division of International Paper Company. The new plant, due to start operations in mid-July, is adjacent to International's Mobile paper mill.

The unit will manufacture multiwall paper shipping sacks and asphalt laminated papers for national distribution. The sacks will include pasted valve, pasted open-mouth, sewn valve and sewn open-mouth types for packaging cement, lime, gypsum and other rock products as well as chemicals, sugar, flour, feeds and fertilizer.

ERCO — ELECTRIC REDUCTION COMPANY OF CANADA LTD. — MADE IN CANADA

BUY BY BRAND

HIGHEST QUALITY and STABILITY

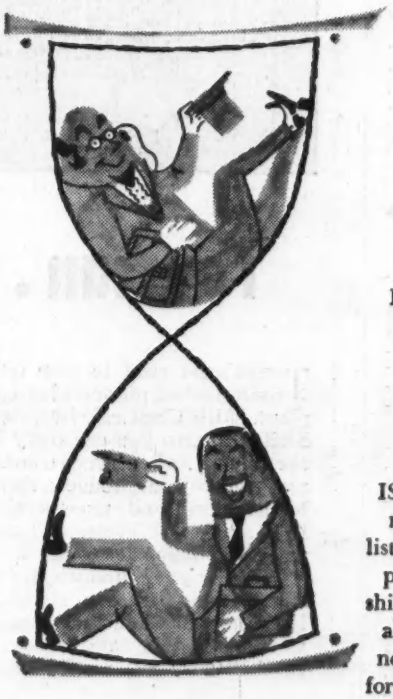
phosphorus red, amorphous
(STABILIZED)

phosphorus sesquisulphide powder

Manufactured by
ELECTRIC REDUCTION COMPANY OF CANADA, LTD.
BUCKINGHAM, QUEBEC

Exclusive Export Agents

DUFF CHEMICAL COMPANY, INC.
342 Madison Avenue — New York 17, N. Y.
MUrray Hill 7-6502 — Cable Address "Chemduf"



ISCO sales and service

1954 VERSION

Back in 1816 manufacturers were purchasing chemicals from Innis, Speiden & Co. — then a new enterprise, offering fine products backed by an alert personnel. Every year Innis, Speiden has had new ideas for carrying on and improving upon the established tradition of sales and service. ISCO 1954 distributes chemicals and non-metallic minerals for a growing list of principals. Sales offices and stock points in major cities insure prompt shipment of your orders. A young and active staff takes care of your product needs and application problems. Send for complete product and price listings.

INNIS, SPEIDEN & CO., INC.
DIVISION OF BERKSHIRE CHEMICALS, INC.
420 Lexington Avenue, New York 17, N. Y.
Sales offices in Boston, Chicago, Cleveland, Philadelphia

INNIS ISCO SPEIDEN
Since 1816

United States Rubber Co. Opens Plant in Santa Ana

Production of "Koylon" foam products has begun at United States Rubber Company's new foam rubber plant in Santa Ana, Calif. The products include furniture and automobile cushions and rug underlay. H. E. Humphreys, jr., company president, stated, "We built this plant because the west coast is growing faster than any other major area in the country. Here, the furniture industry has expanded so rapidly and the automobile assembly operations have increased so fast we could no longer supply them with adequate service without additional foam rubber production capacity."

Blaw-Knox Co. Will Erect Continuous Fat-Splitting Plan

The chemical plants division of Blaw-Knox Company, Pittsburgh, Pa., has received an order from "Asborno" Saponerie Liguri S.p.A., an Italian firm, for a $150,000 continuous fat-splitting plant used for the Colgate-Emery process. This is the sixth such plant to be supplied to foreign industries by Blaw-Knox, which is the exclusive foreign licensing agent for the Colgate-Emery process.

Obituaries

Dr. Fritz O. Laquer

Dr. Fritz O. Laquer, professor of biochemistry at Temple University School of Pharmacy, and internationally known scientist who helped isolate vitamin B-1 from yeast in 1931, died May 29 in Philadelphia. He was sixty-five years old. Dr. Laquer became manager of a research department of the I. G. Farben interests in Germany in 1927, working on hormones, vitamins and enzymes. At the beginning of World War II he set up a pharmaceutical plant for the Venezuelan government in Caracas. Dr. Laquer became a research professor at Temple University in 1940 and there with an associate he manufactured digitoxin.

Dr. Charles M. A. Stine

Dr. Charles M. A. Stine, a member of the board of directors and former vice-president of E. I. duPont de Nemours & Co., Wilmington, Del., and a pioneer in industrial organic chemical research, died May 28 in Wilmington. He was seventy-one years old. Dr. Stine joined duPont in 1907 and embarked on a research program that led to the development of nylon. Other results of Dr. Stine's research included the development of T.N.T. for commercial use, and of low freezing dynamite. Later he helped lead the company into the field of atomic research.

Dr. Stine was named assistant chemical director of duPont in 1919 and chemical director five years later. He was elected to the board of directors in 1930 and was made vice-president and a member of the executive committee. He gave up the vice-presidency prior to his death. Dr. Stine was the recipient of the Perkin Medal of the Society of the Chemical Industry in 1939. He served for many years as a consultant to the government's chemical warfare service.

William S. Evans, president of Lucey Export Corporation, New York, died May 30 in Englewood, N. J. He was seventy-two years old.

Kenneth Dydecker, retired mechanical engineer, died May 31 in Stamford, Conn. He was sixty-nine years old. He was associated with Standard Oil Company of New Jersey for many years and had also owned his own firm in New York.

George Farrand, general counsel to Sunkist Growers, Inc., Los Angeles, Calif., died May 31 in that city. He was seventy-six years old.

Percy A. Foster, manager of the gulf states area for Gulf Oil Corporation, Pittsburgh, Pa., died May 31 in Mobile, Ala. He was fifty-eight years old.

Carl Gerding Kustner, assistant to the general sales manager of Standard Oil Company (Indiana), died June 1 in Chicago, Ill. He was fifty-two years old.

Dr. Ellsworth Marbaker, research scientist at Mellon Institute, died June 2 in Pittsburgh, Pa. He was sixty-five years old.

Frederick J. McMahon, a retired mining engineer, died June 2 in Pinehurst, N. C. He was eighty-two years old.

Seymer E. Nelson, supervisor in the smokeless powder department of Hercules Powder Company, Wilmington, Del., died May 27 in Mine Hill, N. J. He was forty-nine years old.

Ralph S. Livingston, assistant treasurer of Massachusetts Wholesale Drug Company, died May 30 in Boston.

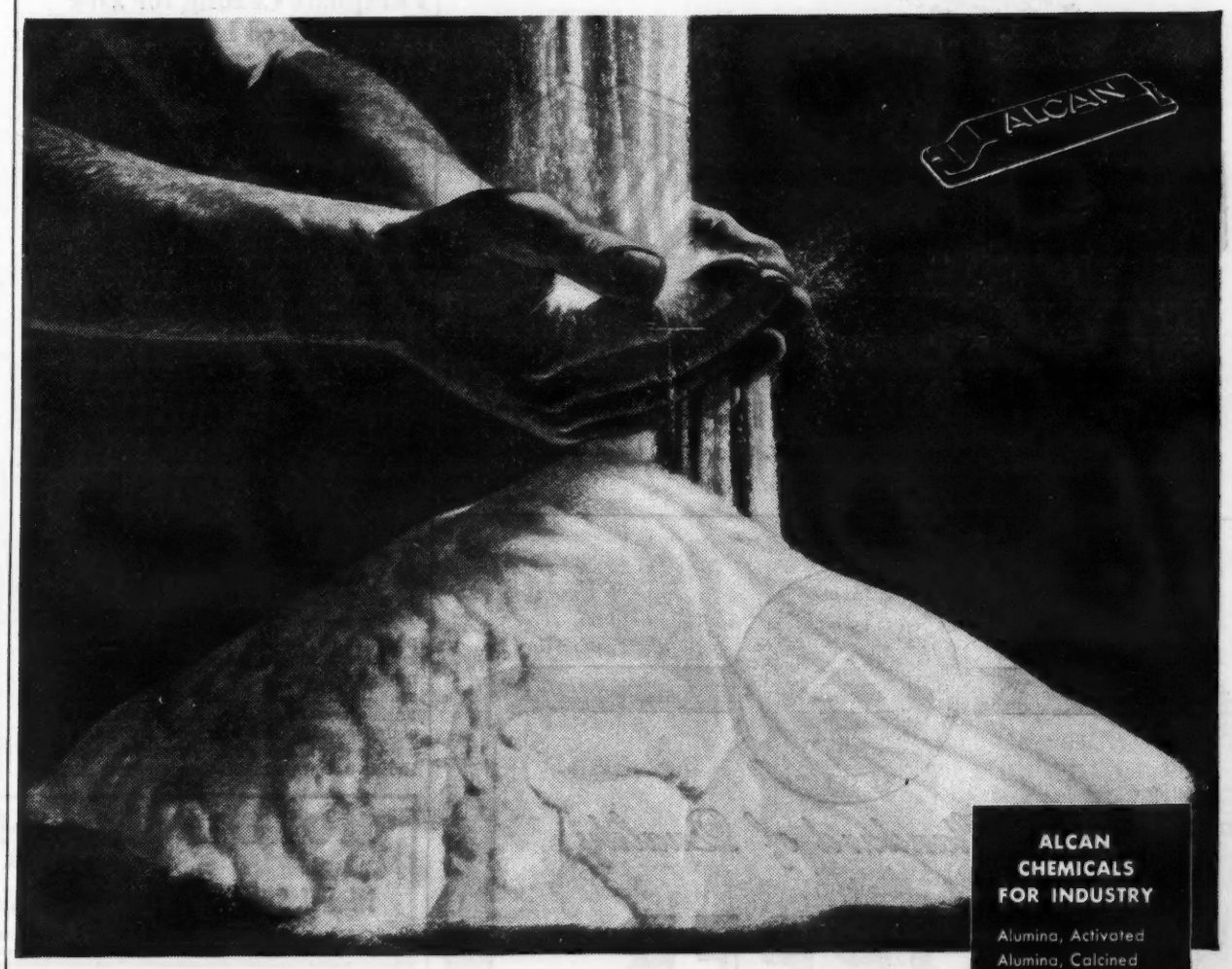
Anders P. Svenningsen, a metallurgical engineer with Anaconda Copper Mining Company, New York, died May 27 in Bronxville, N. Y. He was fifty-eight years old.

Dr. Augustus Wadsworth, director of laboratories and research for the New York state Department of Health from 1914 to 1945, died June 1 in New York. He was eighty-one years old.

Brown-Allen Oil Division Appointments Announced

Brown-Allen Chemicals, Inc., Port Richmond, N. Y., in a move that brings to near completion the reorganization of the management of its oil division, has named J. W. Reid assistant to the president and has appointed M. Alvin Rose sales manager for the oil division. At the same time, the addition of Warner Hays to the sales staff has been announced. Mr. Reid will be in charge of production and administration of the oil division, while Mr. Rose will direct the entire sales program of this division.

Maas
photo-pure sodas
SODIUM SULFITE Anhydrous
SODIUM HYPOSULFITE DIAMOND
SODIUM CARBONATE Monohydrate
SODIUM THIOSULFATE Anhydrous
ALSO THE FINEST:
ACETIC ACID
HYDROQUINONE
ARMOL
POTASSIUM ALUM
BORAX
BORIC ACID
A. R. MAAS CHEMICAL CO.
Division of Victor Chemical Works
4572 ARDINE STREET
SOUTH GATE, CALIFORNIA
Telephone: Kimball 2214



What's Alcan doing in Chemicals?

AS THE PRODUCER of one-fourth of the free world's aluminum, Alcan (Aluminum Company of Canada, Ltd.) is concerned with chemicals in a big way. With a large range of metallic and non-metallic products, evolving from the production of aluminum, Alcan is in a position to supply chemicals to industry for a variety of uses.

These Alcan Chemicals *have* to be good—and you can depend on it—they are. Co-operating in their production are Alcan's sister companies. Each of these affiliates specializes in its own field of endeavor:

- Laboratory research, and the exploring and surveying of material resources throughout the free world;
- Mining and processing of raw materials in many different countries;
- Development of up-to-date shipping methods for the protection and speedy delivery of the products.

One of Alcan's sister companies, Aluminum Import Corporation, distributes Alcan Chemicals in the United States. The *Import* office near you will be glad to help you with your special chemical requirements.

ALCAN Aluminum Chemicals

ALCAN CHEMICALS FOR INDUSTRY
Alumina, Activated
Alumina, Calcined
Alumina Hydrate
Aluminum Chloride, Anhydrous
Aluminum Fluoride
Aluminum Sulphate
Bauxite
Chlorine, Liquid
Cryolite, Artificial
Fluorspar
Lime
Magnesia
Magnesium Chloride, Anhydrous
Sodium Fluoride
Sulphuric Acid

ALUMINUM IMPORT CORPORATION
One of the ALUMINIUM LIMITED group of Companies
Offices or Agents in 40 cities
Cable: ALIMPORT
630 Fifth Avenue, New York 20
20 North Wacker Drive, Chicago 6
422 Terminal Tower, Cleveland 13
611 Wilshire Boulevard, Los Angeles 14

HCHO

More chemical buyers each year are discovering that Spencer means *service*. And because Spencer produces formaldehyde from its own raw materials, you can depend on Spencer shipments. From formaldehyde works in Chicago, Spencer offers fast service to the Great Lakes and entire Midwest. Why not find out for yourself why . . . SPENCER means SERVICE.

Spencer also produces: "Mr. N" Ammonium Nitrate Fertilizer • SPENSOL (Spencer Nitrogen Solutions) • HO-NO-MO (Spencer Herbicide) • Ammonia (Commercial and Refrigeration Grade) • Aqua Ammonia • 83% Ammonia Nitrate Solution • Synthetic Methanol • Hexamine • Polyethylene (1955) • FREZALL (Spencer Dry Ice) • Cylinder Ammonia.

SPENCER® means SERVICE

• SPENCER CHEMICAL COMPANY, Dwight Bldg., Kansas City 5, Mo.

PHELPS DODGE REFINING CORPORATION — NICHOLS TRIANGLE BRAND CHEMICALS — 40 WALL ST. NEW YORK

The Standard of Quality

COPPER SULPHATE

99+% PURE

ALSO

Nickel Sulphate

Selenium • Tellurium

PHELPS DODGE REFINING CORPORATION

Electrolytic Refiners of Copper

40 Wall Street, New York 5, N. Y. 230 N. Michigan Ave., Chicago 1, Ill.

Chemical Items Are on List In Russia-Netherlands Pact

Items of commerce to be exchanged between the Netherlands and Russia under quotas newly established in a trade agreement between the two countries, which has been extended to cover the calendar year 1954, include several products of chief interest to the chemical and allied industries of the United States, it was shown in a list of the products made public last week by the Department of Commerce.

Included among the items to be exported by the Netherlands to Russia are:—Vegetable oils, 1,500 metric tons; leather, 10,000,000 guilders; medicinals, 300,000 guilders; and spices, 100 metric tons.

Among the items Russia agreed to supply the Netherlands are:—Benzol, 4,000 metric tons; paraffin, 500 metric tons; manganese dioxide, 3,000 metric tons; naphthalene, 1,000 metric tons; turpentine oil, 700,000 guilders; gum rosin, 1,000 metric tons; dyestuffs, 200,000 guilders; essential oils, 500,000 guilders; manganese ore, 40,000 metric tons; chrome ore, 20,000 metric tons; ferromanganese, quantity to be determined; asbestos, 3,000 metric tons.

Phosphate Coating for Zinc Is Announced by Pennsalt

Availability of "Fosbond 61," a new product for use in producing a phosphate coating on zinc, has been announced by the Pennsylvania Salt Manufacturing Company, Philadelphia. The phosphatizing componud provides a fine crystalline coating on metal surfaces which serves as an excellent base for subsequent painting operations, Pennsalt stated. Mixed with water, it is applied by spraying.

"Fosbond 61" was developed at the company's Whitemarsh Research Laboratories. It is an addition to the metal processing department's paint-bonding and rust-resistant phosphate coatings line. While designed specifically for use on zinc surfaces, the new product may also be used on steel.

Cyanamid Appoints Dupras

Leonard E. Dupras has been appointed a New England sales representative of the pigments division of American Cyanamid Company, New York. Mr. Dupras will report to William A. Jackson at the New England branch office in Boston.

Attapulgus, Edgar Stockholders Meet June 22 for Final Merger Decision

Attapulgus Minerals & Chemicals Corporation, Philadelphia, and Edgar Brothers Company, Metuchen, N. J., have announced that stockholders' meetings scheduled for June 2 have been adjourned until June 22. The meetings had been called so that the stockholders could act on the plan for the proposed merger of the two companies. The merger is presumed to be tax-free under existing law and under the tax bill recently passed by the house. While no amendments to this bill, which would change the tax-free nature of this merger, are expected, it has been decided to delay completing final details of the merger until further information is available as to the senate finance committee's proposed amendments to the house version of the 1954 tax bill.

Trade Briefs

Lion Oil Company, El Dorado, Ark., has discovered oil in a wildcat test in Morgan County, Colo.

Gretchen D. Little of Atlas Powder Company, Wilmington, Del., has been installed as president of the Special Libraries Association.

We manufacture at Curtis Bay, Maryland

"1924 BRAND" COPPER SULPHATE

REPUBLIC CHEMICAL CORPORATION

94 Beekman St., New York 38, N. Y.

Telephone: REctor 2-9810

Cable Address: Jaynivrad, New York

Established 1924

WE OFFER

Sodium Phenolsulphonate

Ammonium Phenolsulphonate

Carload or less carload lots

Your Inquiries Invited

BONEWITZ LABORATORIES, INC.

BURLINGTON, IOWA

KOLON TRADING CO., INC.

BROKERS

Nickel Sulfate — Nickel Chloride — Nickel Carbonate

Cables: "KOLONOWAN" 15 PARK ROW, NEW YORK 38, N. Y. *Tel:* BEekman 3-8818-21

SODIUM ACETATE, ANHYDROUS

E. M. SERGEANT PULP AND CHEMICAL CO., INC.

7 DEY STREET Established 1867 NEW YORK 7, N. Y.

CROTON CHEMICAL CORPORATION

114 LIBERTY ST., NEW YORK 6, N.Y.

RECTOR 2-0403

Industrial Chemicals

SODIUM NITRATE

STRONTIUM NITRATE

Since 1836

CSC Board Member

T. S. Carswell, vice-president in charge of the biochemicals division, has been elected a director of Commercial Solvents Corporation, New York. Mr. Carswell joined CSC in 1946 after thirty years experience in the chemical industry. Until this January, when he assumed his present duties, he served as vice-president in charge of the research and development department.

Gen'l Tire Chemical Plant Position to James Pollock

James A. Pollock has been appointed factory manager of the new Ashtabula, Ohio, chemical plant of General Tire & Rubber Company. Mr. Pollock has already taken over his duties at Ashtabula, where General Tire is nearing completion of a $6,000,000 polyvinyl chloride plant for production of resin.

With General since 1943, Mr. Pollock served first at the government-owned synthetic plant at Baytown, Tex., which is operated by the company, and later at the Akron, Ohio, headquarters. Previously, he was employed as a design engineer for seven years by United Engineers & Constructors, Inc., Philadelphia.

Patent Appeal Unit Setup For Germany Is Announced

The Department of State announced last week that it had been informed that the Allied High Commission for Germany established a patent appeal board April 18 under Allied High Commission law number 8, promulgated by the German government in October, 1949. This law relates to industrial, literary and artistic property rights of foreign nations and nationals which were impaired by the existence of a state of war or as the result of German wartime legislation.

The patent appeal board has jurisdiction to hear and determine appeals to the Allied Occupation Authorities under law number 8. The board consists of three members from the United States, Britain and France. S. Houston Lay is the United States member.

Appeals to the board must be taken within a period of six months from the date of the decision complained of, for within six months from the date of the establishment of the board, whichever is later. The board will function during the period pending the coming into force of the contractual agreements with the Federal Republic of Germany.

Ammonium Thiocyanate Plans Reported by Halby

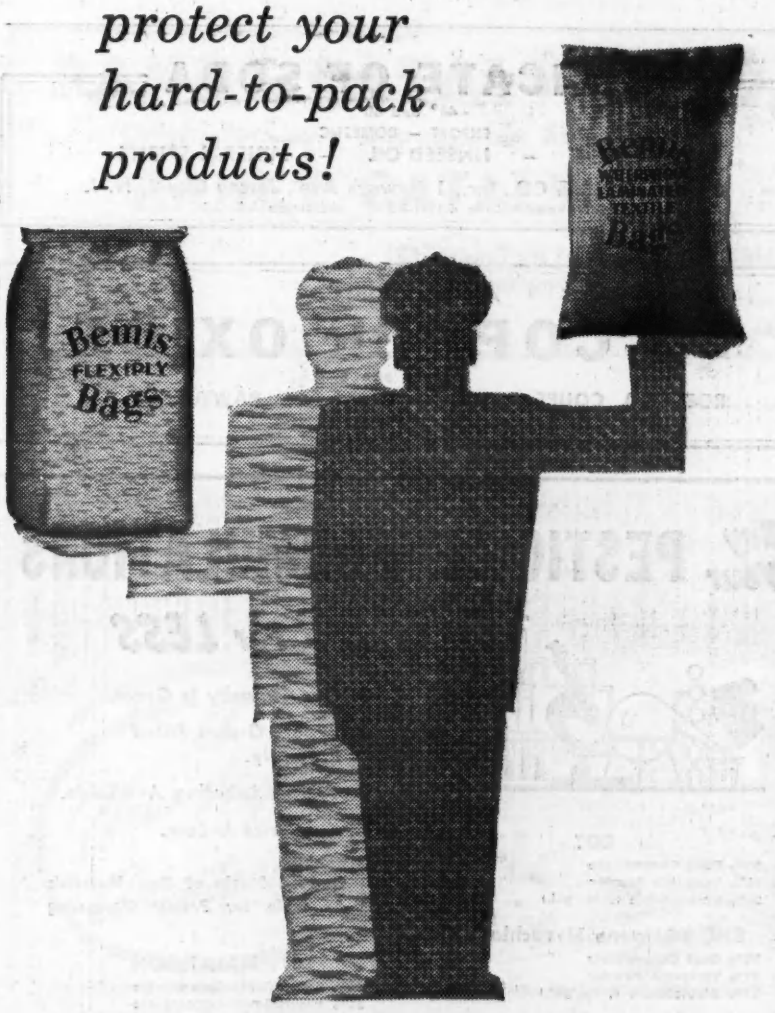
Halby Chemical Company, Wilmington, Del., has installed equipment for the production of crystalline ammonium thiocyanate. Since 1946 the company has produced synthetically a 50 percent aqueous solution of ammonium thiocyanate, primarily for use by synthetic nitrogen producers as a corrosion inhibitor in ammonium nitrate-ammonia solutions.

Metal Cans Shipments: March

Total March shipments of metal cans were 12 percent above shipments during February, according to the Bureau of Census. These figures are based on metal cans shipments expressed in terms of weight of steel consumed in the manufacture of the cans shipped. In March metal cans shipments amounted to 291,063 short tons, compared with February's figure of 260,053 short tons and a figure of 279,294 short tons in March, 1953.

SAINT GOBAIN QUALITY CHEMICALS
SODIUM SILICOFLUORIDE • SODIUM HYDROSULPHITE
SODIUM CARBONATE • SODIUM SULPHATE • FORMIC ACID
MONDIAL TRADING CORPORATION
500 FIFTH AVENUE, NEW YORK CITY TEL. OX 5-6185

the right anhydrous metasilicate
for your cleaners...
metso® anhydrous
right: pure • Metso Anhydrous, pure anhydrous sodium metasilicate* has higher SiO_2 content—low CO_2 content. Soluble silica (SiO_2) percentage is in correct ratio to alkali (Na_2O).
right: attractive • White free-flowing granules blend readily with other materials. Carefully sized to minimize dusting.
right: dependable • Dissolves rapidly. Unique physical structure increases resistance to caking from atmospheric moisture. This improves product stability.
Write or phone (MArket 7-7200) for immediate deliveries of Metso Anhydrous in convenient multiwall paper bags or in 44 gal. asphalt-barrier fibre drums. (Unlabeled packages if you prefer.)
*U. S. Pat. No. 2,239,880
PHILADELPHIA QUARTZ COMPANY
Originators and Developers of Free-flowing Sodium Metasilicate
1133 Public Ledger Bldg., Philadelphia 6, Pa.
METSO PQ
metso detergents
PQ SOLUBLE SILICATES


These tough twins
protect your
hard-to-pack
products!
Bemis
FLEXIPLY
Bags
Bemis Waterproof LAMINATED-TEXTILE Bags
These are the bags you need for the greatest protection at economical costs . . . the strongest shipping bags made. They are 3- or 5-layer construction, with crinkled paper or plastic linings laminated to cotton or burlap.
Bemis Flexiply Bags
If you require a little less than the super-protection of Bemis Waterproof Bags, these laminated, all-crinkled-paper bags are your best bet. Bemis Flexiply Bags are tough—all plies are crinkled to give stretch and flexibility.
Ask your Bemis Man to help you determine which is the practical, economical shipping bag for you. Remember—with either Bemis Waterproof or Bemis Flexiply, you get the benefits of Bemis crisp, bright multi-color printing . . . and Bemis multi-plant service.
Bemis
408-A Pine St.
St. Louis 2, Mo.

POTASSIUM CHLORIDE
FOR THE
Chemical and Fertilizer Industries

CHEMICAL GRADE
MURIATE OF POTASH
62.73% K_2O (99.3% K Cl) Minimum
HIGRADE
MURIATE OF POTASH
62.63% K_2O
GRANULAR
MURIATE OF POTASH
60% K_2O Minimum

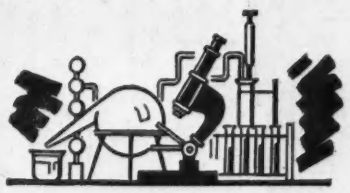
SUNSHINE STATE POTASH
A PRODUCT OF NEW MEXICO U.S.A.

UNITED STATES
POTASH COMPANY
INCORPORATED
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

SILICATE OF SODA
40° and 60°
EXPORT — DOMESTIC
TURPENTINE — LINSEED OIL — MINERAL SPIRITS
CHAS. L. READ & CO., Inc., 1 Newark Ave., Jersey City 2, N. J.
Telephone WOrth 4-1131-2-3 DElaware 2-2062-3

Manufacturers of
Red and Black COPPER OXIDE
COPPER SCALE
ROBERT A. COUPE, 260 Rhode Island Ave., PAWTUCKET, R. I.
Telephone PAwtucket 3-4944

Buy Your PESTICIDE FORMULATIONS
For LESS



1. *Our Capacity Is Great.*
2. *Export Orders Filled Promptly.*
3. *Private Labeling Available.*
4. *Our Price Is Low.*

Carload Stocks of Raw Materials Available for Prompt Processing

DDT
50% Dust Concentrate
50% Wettable Powder
25% Emulsifiable (2 lb./gal.)

BHC (Benzene Hexachloride)
12% Dust Concentrate
12% Wettable Powder
11% Emulsifiable (1 lb./gal.)

TOXAPHENE
40% Dust Concentrate
40% Wettable Powder
60% Emulsifiable (6 lb./gal.)
74% Emulsifiable (8 lb./gal.)

HEPTACHLOR
25% Dust Concentrate
25% Wettable Powder
15% Emulsifiable (1½ lb./gal.)

CHLORDANE
20% Oil Concentrate, Refined
40% Dust Concentrate
40% Wettable Powder
47% Emulsifiable Concentrate
74% Emulsifiable Concentrate

TECHNICAL
2,4,5-Trichlorophenoxyacetic Acid Technical
Butyl Ester of 2,4-D Technical
Butyl Ester of 245-T Technical
Isopropyl Ester of 2,4-D Technical
Isopropyl Ester of 245-T Technical
Iso-octyl Ester of 2,4-D Technical
Iso-octyl Ester of 245-T Technical

LINDANE
20% Emulsifiable Concentrate (1.6 lb./gal.)
25% Wettable Powder

MALATHION
46% Emulsifiable Concentrate
55% Emulsifiable Concentrate

WEED & BRUSH KILLERS
Butyl Ester 2,4-D Emulsifiable (2.65 lb./gal.)
Butyl Ester 2,4-D Emulsifiable (4 lb./gal.)
Butyl Ester 2,4-D Emulsifiable (6 lb./gal.)
Butyl Ester 2,4-D Non-Emulsifiable Oil Base (6 lb./gal.)
Amine 2,4-D Concentrate (4 lb./gal.)
Amine 2,4-D Concentrate (6 lb./gal.)
Isopropyl Ester, 2,4-D Emulsifiable (3.34 lb./gal.)
Low Volatile 2,4-D Emulsifiable (4 lb./gal.)
Low Volatile 245-T Emulsifiable (4 lb./gal.)
Butyl Ester 245-T Emulsifiable (4 lb./gal.)
2 & 2 2,4-D & 245-T Butyl Ester Emulsifiable
2 & 2 2,4-D & 245-T Low Volatile Emulsifiable
Chloro-I.P.C. Emulsifiable (4 lb./gal.)
MCP Emulsifiable (4 lb./gal.)
Penta Weed-Killers (Please Inquire)

BOX NO. 379
OIL, PAINT & DRUG REPORTER
30 CHURCH ST.
NEW YORK 7, N. Y.

Agricultural Chemicals

Index took a sort of nose-dive last week dropping to 111.43 from 112.87 in the preceding period. New potash contract prices became effective at the turn of the month and will run until July 1 when an advance will take place. Producers are giving early buyers a break. The contract schedule includes potassium muriate sulfate, potassium sulfate magnesium and manure salts. Both coke-oven and synthetic ammonium sulfate prices have been reduced effective June 1. Domestic steamed bone meal prices were lowered. Dried blood prices were reduced and so were tankage quotations. These three packinghouse byproducts have declined chiefly from a relaxation in the stockfeed buying movement although bone meal felt the influence of foreign competition.

Nitrogen solutions will be lowered July 1 to $126 per ton of nitrogen for July and August but will be graded higher on September 1 following through with periodical advances as the season progresses. No price changes have been announced in normal superphosphate. There is no castor pomace available from eastern producers at present although demand is fairly active. Menhaden meal is quoted at lower prices for new production material with more demand than supply at present.

Production figures appearing below, unless otherwise designated, are from the Bureau of The Census and the Chemical Division of the Tariff Commission.

Fertilizer Materials

Ammonium Nitrate—March production of original solution was placed at 151,786 tons including 131,892 tons of fertilizer grade and 19,894 tons of all other grades. The February total was 141,052 tons and in March last year 131,698 tons were produced. Stocks on March 31 amounted to 47,065 tons, compared with 78,557 on February 28.

Ammonium Sulfate—Lower prices are now effective for both grades of this material. Coke oven sulfate is offered at prices ranging from $42 to $47.50 per ton, carlots bulk f.o.b. shipping point, through October 31. Yearly contracts of synthetic are offered over the season 1954-1955 at $42 to $45 per ton, carlots, bulk f.o.b. shipping point.

March production showed 79,203 tons of synthetic technical, compared with 63,193 tons in the preceding month and 46,107 tons in March 1953. Stocks on March 31 were 35,012 tons, against 49,963 on February 28.

Bone Meal—Prices of domestic steamed are sustained in some producing quarters and are lower in others. The market is feeling the effect of a slower stockfeed demand and also competition from foreign sellers. There was a spread quotation at the close at $60 to $62 per ton, carlots, works.

Castor Pomace—Continued absence of offerings has restricted trading although inquiry was fairly active. Last sales were at $27 per ton carlots, works.

Dried Blood—Priced lower under a relaxation in the stockfeed buying movement. Sellers in New York quoted $8 per unit of ammonia and $8.25 at Chicago.

Fish Meal—Some new production of menhaden meal has sold at $140 per ton for prompt shipment, Baltimore area. There is more demand than supply at present. Fishing operations have not been very successful to date but are expected to improve with warmer weather.

Phosphate Rock—In producing quarters it was stated that labor negotiations have finally been completed but contracts have not been signed to date. When they are signed an advance in prices is expected.

Potash—New contract prices for muriate 50-60 percent K_2O bulk, works effective until July 1, 1954—unit-ton 36c. to 37½c., Carlsbad, N. M. 44½c. per unit ton, Trona, Cal. Muriate 50-52 percent K_2O in paper bags, Carlsbad $22.70 per ton. Manure salts 20 percent K_2O per unit ton bulk 17c., Carlsbad. Sulfate 49-51 percent K_2O bulk $32 per ton, Carlsbad. Potassium magnesium sulfate 22 percent K_2O—18 percent Mg.O—$13.75 per ton, Carlsbad.

Sodium Nitrate—Seasonal weather has tended to stimulate the inquiry from the local and surrounding areas. Prices unchanged, stocks adequate.

Superphosphate—Stocks of normal adequate with demand spotty. Triple still tight, although new producing plants are running at increased capacity.

Tankage—Lower prices were established last week with stockfeed demand down. Local sales were reported at $7.75 per unit of ammonia and at $8.50 at Chicago.

Price Trends

Advanced
None

Reduced
Ammonium sulfate, coke-oven, $2 per ton, synthetic $3 per ton.
Bone meal, domestic steamed, $2 per ton.
Dried blood, 25c. per unit of ammonia.
Fish meal, menhaden, $5 per ton.
Manure salts, 4c. per unit ton.
Potassium muriate, 7c. per unit ton, Carlsbad, 8½c., Trona.
Sulfate, $5.25c. per ton.
Magnesium sulfate, $2.25 per ton.
Tankage, 25c. per unit of ammonia, New York, 50c. Chicago.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 5, 1953
111.43	112.87	112.95	111.40

(*For Current Prices see page 9*)

Los Angeles Market

Overall demand continued seasonally active last week for organic materials. Limited supplies of domestic fish meal held that market firm. Some slow down in sales of blood meal and tankage noted with market not too firm.

Ruling prices were:—Ammonium nitrate—$90.50 per ton, domestic, f.o.b. Los Angeles. $89.84 per ton, Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$80.14 per ton in bags, 16/20 grade, f.o.b. Los Angeles. $107.64 per ton in bags, 11/48 grade, f.o.b. Los Angeles. Zoln Canadian material.

Blood meal—$7-$7.25 per unit of ammonia at source. Bone meal—$68-$70 per ton, imported, 1/65 meal, c.i.f., Los Angeles Harbor. Domestic—$90-$92 per ton, f.o.b. Los Angeles.

Sodium nitrate—$54.50 per ton in 100-pound bags, f.o.b. Los Angeles. $49.50 per ton in bulk.

Pesticides

DDT is commanding more interest for domestic use while governmental agencies have continued to call for the 75 percent wettable powder for export. Government purchases have placed a sizable dent in the available supply and the market position has been strengthened appreciably. Formulators are taking BHC, with demand reported fairly active in the southeast and southwest. The buying movement on DDD is reported good and satisfactory sales are reported for copper oxychloride. A slight gain was noted in copper sulfate sales but there is no important run on production at present. Sales of lead arsenate are about normal for fruit tree spraying. Paradichlorobenzene had a good season, which is now over until the fall buying movement starts for moth control.

According to the latest bulletin issued by the Department of Agriculture regarding the pink bollworm in Texas, a survey of infestation in cotton blooms in four lower Rio Grande Valley counties made from May 1 through 15 showed considerable reduction to both percent of infested fields and number of blooms infested compared with 1953. It should be recalled that 1953 showed a sharp reduction over 1952. Of fields inspected this season, only 12 percent showed any infestation; this compared with 64 percent in 1953. Results of this survey indicate the lowest pink bollworm infestation in the lower Rio Grande Valley since 1951.

BHC—March production was placed at 6,372,722 pounds, compared with 5,367,965 in the preceding month and 7,526,991 in March last year. The gamma isomer content in March amounted to 901,371 pounds, against 705,317 in February and 1,927,206 pounds in March, 1953.

DDT—Output during March showed 8,035,608 pounds, compared with a revised total of 8,965,698 in February and 9,760,596 pounds in March last year.

2,4-D Acid—Production in March amounted to 2,739,774 pounds, against a revised total of 2,138,035 in the previous month and 2,637,628 pounds in March last year. The output of acid esters and salts was placed at 2,514,670 pounds in March, compared with a revised total 1,483,262 in February and 1,870,977 pounds in March, 1953. The acid equivalent of 2,4-D acid esters and salts in March was 1,935,911 pounds, against a revised total of 1,188,995 in February and 1,423,205 pounds in March last year.

Lead Arsenate—Acid and basic production in March amounted to 1,084 tons, compared with 1,063 in the preceding month and 1,144 tons in March, 1953. Stocks at producing plant on March 31 were 2,826 tons, against 3,309 on February 28.

For Late Market Developments, See Page 4

Hollingshead Research Chief

Reid W. Malcolm, jr., has been appointed director of research and development of the R. M. Hollingshead Corporation, Camden, N. J. Mr. Malcolm, who succeeds Albert E. Moore, joined Hollingshead in January as manager of the technical service section of the company's research division. Previously, he was associated with Dow Chemical Company, Midland, Mich.

ACS N.Y. Section Unit Elects Dr. Sears Chairman

Dr. C. A. Sears, of American Cyanamid Company, New York, has been elected chairman of the newly-formed chemical marketing and economics group of the New York section, American Chemical Society.

The New York group is the first local unit to be formed under the new ACS chemical marketing and economics division. The fundamental principles of chemical marketing and economics and their research methods will be studied and practical applications for the chemical and related industries are to be developed. In addition to a six-man executive committee, other officers elected were:—Chairman-elect R. L. Clark, Vick Chemical Company; secretary, R. J. Eastman, nitrogen division, Allied Chemical & Dye Corporation, and treasurer, R. S. First, Celanese Corporation of America.

US Revenue Returns Reported for March

Details of collections of miscellaneous internal revenue taxes have been issued by the Bureau of Internal Revenue of the Treasury Department. In making the figures public the bureau said that this March's totals are bases on gross collections rather than deposits and, therefore, are not directly comparable to internal revenue receipts as shown in the Treasury daily statement of April 19, 1954. Among the collections reported by the bureau were the following:—

	March	
	1954	1953
Coconut and other vegetable oils, processed	581,000	1,489,000
Distilled spirits, domestic excise tax	136,211,000	140,596,000
Distilled spirits, imported excise tax	17,147,000	18,167,000
Gasoline	9,828,000	64,885,000
Lubricating oils	20,630,000	5,587,000
Matches	175,000	994,000
Narcotics, including marihuana and special taxes	43,000	69,000
Silver bullion sales or transfers stamp tax	1,000	39,000
Sugar	32,000	5,576,000
Toilet preparations, excise tax	1,957,000	7,805,000
Transportation of oil by pipeline	305,000	2,135,000

Gen'l Tire Chemical Unit Names 2 Sales Managers

The chemical division of General Tire & Rubber Company, Akron, Ohio, has appointed L. W. Reeves manager of chemical sales, to supervise the sale of products manufactured at General's Mogadore, Ohio, plant, and has made George Hackim manager of vinyl resin sales, to handle the resins produced at Ashtabula, Ohio, where General is nearing completion of a $6,000,000 plant. Both will headquarter at Akron.

Mr. Reeves, with General's chemical division since 1951, previously was associated with Hooker Electrochemical Company, Dayton Rubber Company, as assistant director of purchasing, and with Binney & Smith Company. Mr. Hackim has been with General since 1948. His previous post was manager of technical service for the chemical division, after serving on the training program and in the research laboratory.

DuPont Kinetic Chemicals Division Sets Up New Unit

E. I. duPont de Nemours & Co., Wilmington, Del.. has established a market analysis section for its kinetic chemicals division, with Joseph C. Hoopes as manager.

Mr. Hoopes joined duPont in 1942 as laboratory technician at its Jackson laboratory, Deepwater Point, N. J. Shortly after graduation from Princeton University he served in the sales development section of the company's organic chemicals department from 1946 to 1949, when he joined the trade analysis division. For the past two years he has been associated with the sales division of the textile fibers department in Philadelphia and Wilmington.

BIMS Plans Golf Matches

BIMS of Boston will open its season's golf schedule at the Weston (Mass.) Golf Club, June 24. The second outing will be at the Dedham Country and Polo Club, Westwood, Mass., August 19. The third will be held at the Nashua (N. H.) Country Club on September 15.

Monsanto's Financial Aid Program To Benefit 44 American Colleges

Monsanto Chemical Company's program of financial aid to scientific education for the 1954-55 school year will benefit forty-four American colleges and universities, Dr. Carroll A. Hochwalt, vice-president, has announced. There are thirteen fellowships, twenty-seven undergraduate scholarships and seventeen cash grants for a total of fifty-seven direct aid awards to be distributed among these schools.

Ethanolamines Bulletin Available

Jefferson Chemical Company has published a forty-page bulletin on monoethanolamine, diethanolamine, and triethanolamine which presents data on physical, toxicological and chemical properties, sales specifications, methods of analysis, uses, handling and storage.

The bulletin describes the broad use pattern of the products and mentions gas sweetening, detergents, corrosion inhibitors, rubber chemicals, agricultural chemicals, emulsifying agents, coatings, and drugs as some of the industries which have requirements for the ethanolamines. Copies may be obtained by writing to Jefferson at 260 Madison avenue, New York 16.

Arcadian*
AMMONIA LIQUOR
ANHYDROUS AMMONIA
A-N-A* FERTILIZER COMPOUND
NITRATE OF SODA
NITROGEN SOLUTIONS
SULPHATE OF AMMONIA
12-12-12 GRANULAR FERTILIZER
UREA PRODUCTS
*Trade-mark of Allied Chemical & Dye Corporation.
NITROGEN DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street New York 6, N.Y.

Who makes the Clearest Pyrethrum Extract?
As the recognized pioneer in the development and processing of pyrethrum, MGK is the original and first producer of standardized pyrethrum extracts of brilliant clarity.
In addition, we have developed excellent synergized pyrethrum concentrates, dusts and powders. If your insecticidal sprays, dusts or aerosols include the use of pyrethrum in any form, or the use of its companion product allethrin, write for the latest authoritative data. We also have available recent information concerning the most effective synergists, MGK 264 and piperonyl butoxide.
McLAUGHLIN GORMLEY KING Company
8712 S. E. FIFTH STREET / MINNEAPOLIS, MINNESOTA

P.C.A.
SALT of the EARTH
RED MURIATE
Producers of
Agricultural and Chemical Grade
MURIATE OF POTASH
POTASH COMPANY OF AMERICA
Carlsbad, New Mexico
General Sales Office... 1625 Eye Street, N. W., Washington, D. C.
Midwestern Sales Office... First National Bank Bldg., Peoria, Ill.
Southern Sales Office... Candler Building, Atlanta, Ga.

RANEY CATALYST CO.
Originators and Dependable Suppliers of
RANEY CATALYSTS
Raney Nickel
718 Hamilton National Bank Bldg.
Chattanooga 2, Tenn.
Since 1925 Phones: 6-8616, 3-1617 Cable Address: RANI

TENNESSEE CORPORATION
CHEMICALS FOR INDUSTRY
A New High In Adaptability!
As miners of Copper, Iron, Zinc and Sulphur, and basic producers of chemicals, the Tennessee Corporation presents . . .
INDUSTRIAL CRYSTALS COPPER SULPHATE
This new improved form of Copper Sulphate Crystals designated as Industrial Crystals Copper Sulphate is uniform in structure and free-flowing and is readily adaptable to all types of solution equipment.
In addition to the Industrial Crystals Copper Sulphate, regular Copper Sulphate Crystals are offered.
COPPER HYDRATE
This versatile and highly reactive copper salt is being produced by Tennessee Corporation with high purity and exceptionally good stability characteristics.
CUPRIC OXIDE
Tennessee Corporation is producing a high grade Cupric Oxide of exceptional purity. In addition to the above the following quality industrial chemicals are offered:
COPPER CARBONATE
ZINC SULPHATE
FERRIC IRON SULPHATE
SULPHUR DIOXIDE
Samples, Specifications and detailed information available upon request.
TENNESSEE CORPORATION
617-29 Grant Building, Atlanta, Georgia

Consulting Chemists and Engineers

ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS, INC.

50 East 41st Street, Room 82 — New York 17, N. Y. LExington 2-1138

A Clearing House — *For Consultants*

Reg. U. S. Pat. Office

When in need of a consultant address the Association

No charge for this service

The Membership Located from Coast to Coast Comprises Specialists in All Fields

Cable: CHEMANENGS, New York

R. S. ARIES & ASSOCIATES

Consultants to the Chemical Industries

New, Profitable Products

Process Analysis—Market Research

Technical & Economic Surveys

Sale and Licensing of Efficient Processes

Complete Chemical and Drug Plants

270 Park Avenue New York 17, N. Y.

ELdorado 5-1430

BODE-LOWRY AND ASSOCIATES

CHEMICAL MARKET RESEARCH AND SALES DEVELOPMENT

80 E. JACKSON BLVD., CHICAGO

BJORKSTEN RESEARCH LABORATORIES

Sponsored Industrial Research

MADISON, WIS. .....323 W. Gorham St.
CHICAGO, ILL. .....1525 E. 53 St.
NEW YORK, N. Y.....50 E. 41st Street
HOUSTON, TEXAS.....2611 Sunset Boulevard
WASHINGTON, D. C.....412 Fifth St., N.W.

THE BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER Tell them about yours

BOYER & SEBASTIAN

JOHN W. BOYER — R. L. SEBASTIAN, Ph.D.

Technical presentations to the Government Bureaus. Surveys of Federal Research and Development Programs. Special statistical and economic data.

1740 K. STREET, N. W. WASHINGTON 6, D. C.

Telephone: EXecutive 3-2285

RESEARCH AND PRODUCT DEVELOPMENT

Oils, coatings, detergents, Plastics. Organic and drug analyses. Testing work.

COLBURN LABORATORIES, INC.

Research Chemists

732 S. Federal St. Chicago 5, Ill

THE BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER Tell them about yours

SPECTROGRAPHIC ANALYSES

Qualitative and Quantitative Since 1936

Micro and Semimicro analyses of metallics; convention and metallurgical analyses, metallography, metal failures investigated, heat treating consultants, photomicrographs, Jominy Hardenability, physical tests.

W. B. COLEMAN & CO.

9th St. & Rising Sun Ave. Philadelphia 40, Pa.

DI CYAN & BROWN

Consulting Chemists

12 East 41st Street, New York 17, N. Y.

MUrray Hill 5-6011

CONSULTANTS IN DRUGS & COSMETICS

Scientific & Regulatory Problems

EVANS RESEARCH & DEVELOPMENT CORPORATION

One of the largest independent research organizations in the country. Specialized help in fundamental and applied research, product and process development . . . in such fields as

Organic Chemistry — Organoleptic Evaluations
Chemical Processes — Physical Chemistry
Foods and Beverages — Biologicals and Pharmaceuticals
Explosives — Waste Disposal
Product Development
Natural Products

SEND FOR BOOKLET "O"

MU 3-0071

250 E. 43rd St. New York 17, N. Y

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER Tell them about yours

Fitelson Laboratories, Inc.

Consulting and Analytical Chemists

J. Fitelson, Ph.D., Director

Foods, Spices, Oils, Drugs, Cosmetics

Specialist on labeling, sanitation and chemical problems connected with F.D.A. procedures.

254 W. 31st Street, New York 1, N. Y.

OX 5-0765

FOOD RESEARCH LABORATORIES, INC.

FOUNDED 1922

Bernard L. Oser, Ph.D., Dir.

RESEARCH—ANALYSES —CONSULTATION

Biological, Nutritional, Toxicological Studies for the Food, Drug and Allied Industries

48-14 33rd St., Long Island City 1, N. Y.

EMILE C. FREELAND

Consultant to LATIN AMERICAN AND TROPICAL INDUSTRIES

Raw and Refined Cane Sugar

Cane Sugar By-Products

Vegetable Oils and Lard, Oleomargarine

Agricultural Products and Methods

Economic Surveys, Development, Marketing

Factory Design, Supervision, Modernization

SE HABLA ESPANOL

1158 Fifth Ave., New York 29, N. Y.

TRafalgar 6-1109

HUDSON LABORATORIES, Inc.

Consulting Chemists and Bacteriologists

Albert F. Guiteras, Ph.D., Director

Testing Analysis Formulation Research

BACTERIOLOGY, CHEMISTRY, TOXICOLOGY

Foods Drugs Cosmetics

Disinfectants Antiseptics Sanitizers

117 W. 13th Street, New York 11, N. Y.

ALgonquin 5-6290

KENDALL INFRARED LABORATORY

David N. Kendall, Ph.D., Director

Qualitative and Quantitative Analyses on

All Organics and Most Inorganics

Consultation—Research—Personnel Training

1039 Sherman Ave. Plainfield, N. J.

PLainfield 4-5205

LAWALL & HARRISSON

CHEMICAL • BACTERIOLOGICAL PHARMACOLOGICAL

Analyses • Consultation Research

FOOD AND PHARMACEUTICAL PROCESS ENGINEERING

Div. O. 1921 Walnut Street Philadelphia 3, Pa.

LEBERCO LABORATORIES

Hormone Assays — Biological Assays

Pharmaceutical and Cosmetic Research

Sterility Tests • Toxicity Studies

Send for information concerning our services

125 Hawthorne St., Roselle Park, N. J.

ERNEST C. MOFFETT

CONSULTING CHEMIST

Offers Unique Experience in the Organization and Management of Industrial and Research Laboratories and in the Evaluation of New Projects.

582 Barron Avenue, Woodbridge, N. J.

WOodbridge 8-2170

MOLNAR LABORATORIES

Consulting, Testing and Research,

Organic Synthesis, Clinical Studies, Product Development and Control, Toxicity and Dermatitis Tests, Disinfectant Testing

211 E. 19th St., New York 3, GR 5-1030

Cable Address: Molchem

THE ORTHMANN LABORATORIES, INC.

Consulting Analytical & Research Chemists

For the Leather & Allied Trades

Aug. C. Orthmann, President

922 NORTH FOURTH STREET

Milwaukee 3, Wisconsin

ANALYSTS CONSULTANTS SPECTROSCOPISTS

PHILADELPHIA TESTING LABORATORIES

900 W. Venango Street

Philadelphia 40, Pa.

EST. 1865

W. S. PURDY COMPANY

Analytical & Consulting Chemists

TESTING OF PETROLEUM OILS WAXES AND RELATED PRODUCTS

Bayway Terminal Bldg.

c/o Charles Martin & Co.

Elizabeth, N. J.

Phone ELizabeth 3-3894

REGO LABORATORIES

CONSULTING CHEMISTS & CHEMICAL ENGINEERS

Over half century of collective experience Dr. W. W. LEWERS, Ph.D., Dir.

Detergents, Chemical Specialties, Waxes, Emulsions, Polishes, Paints, Synthetics, Cosmetics, Market Surveys, Plant Design.

120 Liberty Street Telephone:

New York 6, N. Y. COrtlandt 7-8323

THE SCHEPP LABORATORIES

Chemical Consulting Research and Development

Industrial—Agricultural—Biochemical

Wm. J. Schepp, F.A.I.C., Director

Member—A. C. C. & C. E.

21-23 Summit Ave. Fairlawn 6-1212

East Paterson, N. J.

SEIL, PUTT & RUSBY, INC.

Established 1921

Earl B. Putt, President

Stephen S. Veris, Ph.D., Chief Chemist

Experts in analyses, of drugs, essential oils, spices, rotenone and pyrethrum and other organic insecticides, flavors alcoholic liquors, toilet preparations, proprietaries and special formulae.

16 E. 34th St., New York 16, N. Y.

Phone: MUrray Hill 3-6368

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER Tell them about yours

LOUIS L. SHAPIRO

CHEMICAL CONSULTANT

72 Orange Street, Brooklyn 1, N. Y.

TRiangle 5-7715

SPECIALIST—Glycol Esters, Fats, Oils, Stearic Acid, Fatty Acids Glycerine, Waxes, Emulsifiers, Protein, Fertilizers, Tallow Rendering, Packing House By Products, Soaps, Cosmetics, Distillation, Dowtherm, Process Engineering, Testing Research.

J. L. K. SNYDER, Ph.D.

Specializing in Management Problems, Product Development, Distribution, and Sales Promotion in the Chemical Pharmaceutical and Nutrition Fields.

220 East 42d Street Telephone:

New York 17, N.Y. MUrray Hill 2-1156

THE BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER Tell them about yours

STILLWELL & GLADDING, INC.

130 Cedar Street, New York 6, N. Y.

Analysis Inspection Sampling

Chemicals, drugs, fats, oils, fertilizer, insecticides, glycerine, soaps, solvents, waxes, etc.

For Over 80 Years

RESEARCH LABORATORIES

FOSTER D. SNELL, INC.

29 West 15th Street

New York 11, N. Y.

WA 4-8800

TESTING and FORMULATION of WAXES, PAINTS, VARNISHES

COMPLETE ANALYTICAL SERVICES

DRUGS, FATS, OILS

INSECTICIDES

CHEMICAL SPECIALTIES

DEVELOPMENT

BACTERIOLOGY TOXICOLOGY

VITAMIN ASSAY

RESEARCH

TECHNICAL ENTERPRISES, INC.

CHEMISTS ENGINEERS CONSULTANTS

Process Development and Process Engineering

Complete Chemical and Drug Plants

31 South St. WHitehall 3-1344

New York 4, N. Y. Cable: Redniss, N. Y.

UNITED STATES TESTING COMPANY, INC.

1415 Park Avenue, Hoboken, N. J.

Testing — *Research*

Chemistry — Minerals
Engineering — Microscopy
Electronics — Product
Psychometrics — Certification
Textiles — Engineering
Foods — Inspection
Leather — Product Development

BRANCH LABORATORIES

New York — Boston — Providence
Philadelphia — Chicago — Denver
Dallas — Los Angeles — Memphis

IN CANADA: W. J. Westaway Co., Ltd. Hamilton - Toronto - Montreal - Winnipeg

EMERSON VENABLE*

AND ASSOCIATES

Consulting Chemists & Engineers

Pa. Registry No. 12606

PHYSICS
CHEMISTRY
ENGINEERING
TOXICOLOGY
PUBLIC HEALTH
METALS and ORES
CONTRACT RESEARCH
PROCESS and PRODUCT DEVELOPMENT

*Member—A.C.C. & C.E.

HI-land 1-8645

6111 Fifth Avenue Pittsburgh 32, Pa.

The Washington Institute For Experimental Medicine

HERNDON, VIRGINIA

FOOD, DRUG, AND COSMETIC RESEARCH

Toxicological and Screening Tests
Biological Assays

(Just across the Potomac from the Nation's Capital)

ROGER WILLIAMS

Technical & Economic Services, Inc.

• ENGINEERING ECONOMICS
• MARKET RESEARCH
• PRODUCT EVALUATION

Write for "Profit Evolution"

148 East 38th Street, New York City 16

MUrray Hill 5-5257

Size for Paper Offered By Monsanto Chemical

A new, complete paper size, "Mersize RM" dry, has been introduced to the industry in commercial quantities by Monsanto Chemical Company's organic chemicals division. The new product, designed to supplement the company's present paste sizes, is said to have the optimum degree of fortification for the highest sizing efficiency. Extensive laboratory and field tests have shown the new material to be highly efficient in sizing a variety of papers. It may be used directly without first being put into solution, Monsanto said.

Oil Trades Ass'n Outing June 29

Oil Trades Association of New York will hold its thirty-eighth annual spring sports outing June 29 at the Winged Foot Golf Club, Mamaroneck, N. Y. There will be golf all day, with luncheon slated from 12 noon to 2 p.m. and dinner at 7:30 p.m. Price, which includes lunch, dinner and golf fees, is $15 to association members and $20 for guests.

Hanna Paint Relocates

Hanna Paint Company has moved its headquarters into its new $1,000,000 plant recently completed at 1313 Windsor avenue, Columbus, Ohio. The facility is comprised of six buildings—a main building made up of an office section, executive offices, laboratory section, three floor manufacturing area, warehouse and shipping and receiving department for finished products as well as five other buildings which house the equipment for varnish making, lacquers and industrial finishes.

Oils, Oilseeds British Pacts Reported Terminating Early

The Foreign Agricultural Service said last week that it has been announced that the British Ministry of Food's long-term contracts with the Produce Marketing Companies of British West Africa for oils and oilseeds will end this summer instead of at the end of 1955.

The announcement stated that shipments will continue to be for Ministry of Food account until June 30, 1954, but after that the British West Africa Produce Marketing Companies will sell direct to private traders in the United Kingdom.

The contracts relate to groundnuts, groundnut oil, palm kernels, palm oil, benniseed (sesame seed), and cottonseed from Nigeria; palm kernels from the Gold Coast; groundnuts and palm kernels from the Gambia; and groundnuts, palm kernels, palm oil and benniseed from Sierra Leone. The Ministry of Food has been the sole importer of these commodities since 1939.

Bids Wanted

Alcohol, solvent, proprietary, denatured, 1,620 gals., inv. X-23383, June 15, Panama Canal Co., Procurement Officer, 24 State St., N. Y., N. Y.

Chlorine, 30,000 lbs., liquid, inv. 23, June 14, Fort Sill, McNair, Okla.

Gas, 42,000 lbs, propane, inv. 232, June 15, Camp Detrick, Frederick, Md.

Limestone, 17,300 tons, inv. 211, June 7, U. S. Naval Ammo. Depot, Navy Dept., McAlester, Okla.

Paint, 3,500 1-gal. cans ready mixed paint, Norfolk, inv. 54,627, June 14; 2,100 gals. varnish, shellac, inv. 54,628, June 16; 4,488 qts. and 2,250 gals. aircraft, gloss enamel, Mallory A F Depot, Tenn., Topeka, Kans., inv. 54,637, June 17, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila 11, Pa.; lead base paint, inv. 3G-40327-A-R, June 14, Gen. Services Adm., Fed. Supply Service, Region 3, 7th & D Sts., Washington 25, D. C.

Industrial Organic Chemicals

A series of reductions last week starting with methanol and proceeding with formaldehyde and pentaerythritol and their isomers resulted in a lowering of the price index by 0.16 points. Methanol was cut 5 cents effective June 1. Formaldehyde, NF, inhibited, came down 0.45 cents in tankcar quantities, while the carlot and less than carlot prices were 2/10 to 4/10 of a cent lower. Methanol-free formaldehyde also was reduced ½ cent. Pentaerythritol, dipentaerythritol, and tripentaerythritol all were lowered 2 cents per pound.

It was still conceivable that the formaldehyde reduction could bring a revision in formic acid, but some sources do not use the aldehyde as a raw material, minimizing the chance of such a move. Demand for formic acid was satisfactory. Supplies were ample for current needs.

The alcohol market was unchanged, movement being fairly good. Prices have shown a little firmer tone with the steady demand. The market for butanol was moving right along. Demand for dipropylene glycol was fairly steady. Virtually no change was noted in market conditions for glycerine. Crude material was still very firm in price due to the shortage. Higher bids from the European buyers took Argentine stocks, but the price in Europe was still not enough to cause any buying in this market. Refined prices were unchanged even though competition with PE would be keener in the resins field. Crude prices worked against this possibility.

Producers were still moving a good volume of methanol. Monomethylamine was fairly steady. Oxalic acid was unchanged, demand was satisfactory. Perchloroethylene moved well to the dry cleaning business.

Price Trends

Advanced

None

Reduced

Dipentaerythritol, 2c. per lb.
Formaldehyde, NF, inhibited, tankcars, 0.45c. per lb.
methanol-free, ½c. per lb.
Methanol, synth., 5c. per gal.
Paraformaldehyde, flake, 1¼c. per lb.
USP X, ½c. per lb.
Pentaerythritol, tech., 2c. per lb.
Tripentaetrythritol, 2c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month
131.91	132.07	132.29

(For Current Prices see page 9)

Acetic Acid—The combined total of synthetic and natural production in March was 39,012,290 pounds, as against 28,804,467 pounds turned out in February, according to Tariff Commission figures. Of this, synthetic output amounted to 37,352,290 pounds in March and 27,172,467 pounds in February. Natural production in March was reported at 1,660,000 pounds, while 1,632,000 pounds of acid were turned out in February.

Alcohol—No changes in price quotations have come about in recent weeks. Producers indicated that they have been doing a relatively good business, volumewise. Demand has been good enough in the past several weeks to actually firm up the price position of the market. Suppliers have noted less pressure for lower schedules from consumers lately. Still, there were occasional needs to meet competition, but the price trend was towards a firmer position.

Butyl Alcohol—Producers said that a continued call for butanol has kept activity up to a good pace. Output was moving right along without any difficulties. Prices held firm and unaltered. Supplies were sufficient to take care of consumer requirements.

Dipentaerythritol—Producers announced a 2c. reduction in quotations of this isomer at the same time that PE came down. Current quotations of bags were at 35c. per pound in less than carlots, on an f.o.b. basis.

Dipropylene Glycol—A fairly good demand has kept movement of this polyol at a satisfactory pace. Prices were firm and unchanged from previous levels. Supplies were adequate to take care of consumer requirements.

Ethyl Ether—Total production of technical and USP grades of ether in March was 3,395,897 pounds, according to Tariff Commission statistics. In comparison, February output was 2,989,682 pounds, and output in March of last year was 4,929,257 pounds.

Formic Acid—Producers said that demand was satisfactory, but not especially heavy. Ample supplies were around to take care of consumption needs. Prices held firm at previously established listings. It was said that there has been no indication that the 2c. reduction for formaldehyde was going to effect prices in this market for the acid. The fact that some sources do not use the aldehyde as a raw material in the production process was a deterrent to any price cut. However, it was not inconceivable that a revision could come about, trade sources felt.

March production of formic acid totaled 1,027,745 pounds, as against February output of 1,031,186 pounds, and March, 1953, production of 1,405,368 pounds, according to Tariff Commission statistics.

Formaldehyde—The reduction in methanol schedules precipitated lower quotations in this market. Delivered prices in the east for the inhibited NF grade ranged from 3.75c. to 3.95c. in tankcar quantities, a cut of 0.45c. per pound. Prices in zone 2 remained the same at 4.2c. per pound, in tankcars. The drum carlot price in zone 1 now ranged from 6.2c. to 6.4c. per pound, whereas it had been at the 6.6c. level. Carlots of 12-15 percent material were quoted at 6.5c. per pound in zone 2. Where producers were quoting an l.c.l. schedule for NF, the price was down 2/10c. at 6.9c. per pound.

Methanol-free formaldehyde in tankcars was at 3.45c. per pound in zone 1, while zone 2 listings remained unchanged at 3.95c. per pound.

Glycerine—Virtually no change has taken place for crude or refined material. Crude supplies were still short because of a lack of imports and low soaping operations. The imports haven't been coming in too fast because of a heavy world demand for the material. And, soap operations have not been as high because of the large volume of detergent output competing with tallow soaps.

It was reported that a large slug of Argentine crudes has gone to Europe because of higher prices paid there. Nonetheless, European prices are still not high enough to cause any buying here, it was added. The demand over there has been both for industrial uses and for the military program.

Refined glycerine prices have held fast. Movement continued to be steady for resins, pharmaceuticals, cellophane, and explosives. Stocks were ample. But, there was no great surplus, it was added.

Methanol—Competitive conditions, such as those in the mid-west mentioned last week, have resulted in a reduction of synthetic methanol schedules effective June1. Current quotations in zone 1 were at 27c. per gallon for tankcars, 30c. per gallon in tankwagons, 42c. per gallon in drum carlots, and 48c. per gallon in l.c.l. quantities of drums. Competitive conditions in Camden, N. J., have resulted in a 25½c. tankcar price, minimum 4,000 gallons, freight equalized with that point. Zone 2 prices were 32c. tankcars, 47c. drums carlot,, and 53c. in l.c.l. quantities.

Producers said that they were still moving a good volume of methanol to industrial uses. The canning season for the antifreeze business has started and is taking a steady volume. However, competitive conditions had been noted on the distributor level for that outlet earlier.

Monoethanolamine—There have been no significant changes in this market. Demand was fairly steady at its present level. Incoming orders have not been exceptionally heavy either. Prices were firm at former levels. Ample supplies were available to take care of demand needs.

March production of the mono-, di-, and tri-isomers totaled 4,641,018 pounds, as against 4,811,987 pounds turned out in February, and 4,594,529 pounds in March, 1953, according to Tariff Commission figures.

Oxalic Acid—No changes have been

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the coal chemicals market, while reports on fine and rare organic chemicals appear in the drugs, fine chemicals, botanicals market.

For Late Market Developments, See Page 4

FINE HEYDEN CHEMICALS

FORMALDEHYDE

N.F. SOLUTION: Tank cars—72,000 lbs.; tank trucks—about 30,000 lbs.; drums—475, 250, 125, 90 lbs.; carboys—100 lbs.

37% SOLUTION METHANOL-FREE: Tank cars—72,000 lbs.; tank trucks—about 30,000 lbs.

• • •

PARAFORMALDEHYDE, U.S.P.X.
(POWDER, MEDIUM POWDER, FLO-GRANULAR)
Fiber drums—250, 100, 50, 25 lbs.

SUPERFYDE® (POWDER)

A water-free solid polymer of formaldehyde adapted to syntheses requiring anhydrous conditions. Fiber drums—250, 100, 50, 25 lbs.

HEXAMETHYLENETETRAMINE

TECHNICAL: Powder in 50 lb. bags and 100 lb. fiber drums. Granular in 75 lb. bags and 100 lb. fiber drums. U.S.P.: Powder and Granular in 100, 50, 25 lb. fiber drums.

HEYDEN
CHEMICAL CORPORATION
342 Madison Avenue • New York 17, N. Y.
CHICAGO • CINCINNATI • DETROIT • PHILADELPHIA • PROVIDENCE • SAN FRANCISCO

AVAILABLE FROM DU PONT

H—C(=O)—NH2

Formamide

VERSATILE SOLVENT AND USEFUL INTERMEDIATE

Formamide is an economical and efficient solvent for many heavy metal chlorides and other inorganic salts . . . as well as for a variety of organic compounds. It is also a useful intermediate in vitamin synthesis . . . and as a softener for animal glues and paper. Formamide is a clear, viscous liquid with a faint ammonia odor. Its boiling point is 210°C.

Du Pont Formamide is available with 97% min. Formamide content, shipped in tank cars and in 55 gallon non-returnable steel drums (net wt. 500 lbs.).

E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Department, Room 616, Wilmington 98, Del.

*REG. U.S. PAT. OFF.

DU PONT
REG. U.S. PAT. OFF.
Better Things for Better Living . . . through Chemistry
POLYCHEMICALS
DEPARTMENT
AMIDES • ALCOHOLS • ESTERS • ORGANIC ACIDS
SOLVENTS • RESINS

Specify BUTYL "CELLOSOLVE"
(Ethylene Glycol Monobutyl Ether)

When you want . . .

1. The outstanding blush-resistant solvent for lacquers.
2. A viscosity reducing agent for alkyd baking enamels.
3. Active solvent for hot-spray lacquers.
4. A diluent for hydraulic fluids.
5. A coupler for cutting oils and textile oils.
6. A solvent in industrial cleaners and for agricultural chemicals.

Physical Properties	
Sp. Gr.	0.9019
B.P. at 760 mm.	171.2°C.
Flash Point (C.O.C.)	165°F.
Sol. in H_2O at 20°C.	Complete
Sol. of H_2O in at 20°C.	Complete
Viscosity	6.42 cps.
Toluol Dilution Ratio (½ sec. N.C.)	3.5

"Cellosolve" is a registered trade-mark of UCC

CARBIDE AND CARBON CHEMICALS COMPANY
A Division of Union Carbide and Carbon Corporation
UCC
30 E. 42nd St., New York 17, N. Y. Offices in Principal Cities
In Canada: Union Carbide Canada Limited, Toronto

noted in this market. Producers said that a relatively satisfactory demand moved a steady volume of output. However, sales were not as high as they had been in former months. Prices remained firm at previously established quotations. Ample supplies were obtainable to take care of current consumption needs.

Total production of oxalic in March was 1,715,835 pounds, compared with February output of 1,900,236 pounds, and March, 1953, output of 1,798,616 pounds, information received from the Tariff Commission.

Paraformaldehyde—Price revisions were effected in this market along with the changed for formaldehyde. However, the flake and the USP X materials were the only grades to change. Powder held to previous levels.

Current quotations of the 91 percent flake were at 10¾c. per pound in carlots, 1¼c. below old schedules. The same reduction for l.c.l. orders brought the price down to 12¼c. per pound. Carlots of USP X were down ½c. at 18.3c. per pound, while lesser lots down to 1,000 lbs. were at 19.3c. Smaller than 1,000 lb. lots remained at 20.8c. per pound. Also holding firm were quotations of powder at 15½c. per pound in carlots, and 17c. per pound in less than carlots.

Pentaerythritol—A major source reduced schedules of technical material 2c. per pound last week across the board and other suppliers went along with the cut immediately. Current quotations of the technical and pure material, which became effective retroactively to June 1, were at 32c. per pound in carlots, and 33c. per pound less than carlots.

It was said that two factors were behind the present lower schedules. First, the lower formaldehyde prices naturally brought reduced raw material costs. Second, increased output and plant expansion has been reflected in reduced production costs through greater efficiency of operation.

Current production figures released by the Tariff Commission indicate that March output was 5,110,768 pounds, compared with 4,414,925 pounds produced in February, and 5,144,050 pounds in March, 1953, according to statistics from the Tariff Commission.

Perchloroethylene—Sales in this market have been pretty good, producers reported. The current dry cleaning season has been taking a good volume of material. It was said that a large part of the dry cleaning business for the solvent was handled through distributors, which acted as a buffer to prevent sudden surges in demand on the primary producers. However, there were still many small drum sales from that direction handled by producers themselves. Demand for the cleaning solvent was expected to hold up at approximately the same levels. Prices have been firm at previous quotations. Supplies were adequate.

Perchloroethylene production in March totaled 11,046,259 pounds, as against 10,436,969 pounds turned out in February,

LEVER BROTHERS COMPANY
Producers and Refiners of
NATURAL GLYCERINE
390 Park Avenue New York, N. Y.

Working samples of
DIMETHYL DISULFIDE ---→ 67% Sulfur
AND
DIETHYL DISULFIDE ---→ 52.5% Sulfur
For additional information on the properties of these two interesting compounds, write to
UNIVERSAL MANUFACTURING COMPANY
P. O. BOX 2427 • HOUSTON 1, TEXAS

ORGANIC PEROXIDES
DI-t-BUTYL PEROXIDE
STABLE, LIQUID POLYMERIZATION CATALYST FOR USE AT TEMPERATURES ABOVE 100°C
ASSAY—97% (MIN.)
WAREHOUSE STOCKS CONVENIENTLY LOCATED THROUGHOUT THE COUNTRY
TRADE MARK
LUCIDOL DIVISION
WALLACE & TIERNAN INCORPORATED
BUFFALO 5, NEW YORK

NATIONAL BRAND MILK SUGAR
QUALITY STANDARD THE WORLD OVER SINCE 1883
ALPHA LACTOSE
BETA LACTOSE
NATIONAL MILK SUGAR COMPANY
Division of The Borden Company
350 MADISON AVENUE NEW YORK 17, N. Y.

Ethylene Oxide
Available in Tank Cars and Cylinders
Other Nitrogen Division Products
Ammonia Liquor
Ammonium Nitrate Solutions
Ammonium Sulphate
Anhydrous Ammonia
Industrial Grade
Refrigeration Grade
Ethylene Glycol
Diethylene Glycol
Triethylene Glycol
Ethylene Oxide
Methanol
Formaldehyde
Mixes Oxides
Nitrogen Tetroxide
ARCADIAN® Nitrate of Soda
U.F. Concentrate—85
Urea
NITROGEN DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.

ANSUL

CHEMICALS FOR INDUSTRY AND THE LABORATORY

- SULFUR DIOXIDE
- METHYL CHLORIDE
- ETHERS OF POLYGLYCOLS
  Ethylene Glycol Dimethyl Ether
  Diethylene Glycol Dimethyl Ether
  Triethylene Glycol Dimethyl Ether
  Tetraethylene Glycol Dimethyl Ether
- ETHERS OF HYDROQUINONES
  1,4 Dimethoxy Benzene
  Hydroxy Anisole
- SYNTHETIC PYRIDINE COMPOUNDS
  Alpha Picoline
  2-Methyl-5-Ethyl Pyridine
  Gamma Picoline
  Pyridine
  Beta Collidine
  Pyridine Bases
  Isonicotinic Acid

THE ANSUL CHEMICAL COMPANY
INDUSTRIAL CHEMICALS DIVISION
MARINETTE, WISCONSIN

Ethylene Imine
(boiling range 55° to 57° C)
and Triethylene Melamine
now available in Pilot Quantities
Chemirad Corporation
Laurel, Maryland

and 11,574,655 pounds in March of last year, figures from the Tariff Commission relate.

Propylene Glycol—March production of this polyol totaled 3,482,838 pounds, while February output was 2,974,304 pounds, and March, 1953, production was 5,490,328 pounds, according to Tariff Commission statistics.

Trichloroethylene—Production figures for March indicate that total output that month was 24,367,808 pounds, while February production amounted to 23,906,697 pounds, and March, 1953, output was 29,332,603 gallons, according to Tariff Commission figures.

Triethanolamine—This market was unchanged. Supplies were adequate to take care of the current demand. Prices were firm and steady at previous quotations.

Tripentaerythritol — Announced price changes amounting to a 2c. cut for pentaerythritol were accompanied by a similar cut in this market. Present schedules for the tri-isomer were at 35c. per pound in less than carlots. Adequate supplies were available to handle consumption needs.

N.Y.U. Announces Opening Of Surface Research Lab

A new laboratory for surface technology research has been opened in the research division of New York university's College of Engineering. The new facility is located in engineering research building No. 2 at 401 West 205th street, Manhattan. Surface technology research was formerly conducted in several buildings on the nearby University Heights campus of NYU.

Acrylonitrile Bulletin Offered

A new eight-page technical bulletin on acrylonitrile has been released by Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation. The reactions of acrylonitrile and its major use are described. Properties, constant-boiling mixtures, specifications, and shipping data are included. Copies of this technical bulletin (F-8381) are available on request from Carbide & Carbon Chemicals Company, 30 East 42nd street, New York 17.

PROCTER & GAMBLE
Gwynne Building, Cincinnati 2, Ohio
Commerce Building, 155 East 44th Street
New York 17, N. Y.

Glycerine
ALL GRADES

9 CONVENIENTLY LOCATED
PRODUCING AND REFINING PLANTS
ASSURE PROMPT SHIPMENTS AND DELIVERIES

Look to
WESTERN CONDENSING COMPANY
for prompt delivery of

MILK SUGAR
Crude — Edible — U.S.P.
WHEY POWDER
Edible & Animal Grade
CASEIN
ACETONE
BUTANOL

COMPLETE quality control, ample production facilities, sound pricing, and prompt handling of orders ... these are your invitation and your assurance of a profitable business relationship with the world's largest manufacturer of products from whey.

Write our Appleton office for technical data, and for samples to test under your own applications.

APPLETON, WISCONSIN
PETALUMA, CALIFORNIA

WESTERN CONDENSING COMPANY

$Cl_2CHCOOCH_3$
methyl dichloroacetate

METHYL DICHLOROACETATE has now a limited use as an organic intermediate. The reactions listed below or merely its formula may suggest new possibilities to the inquiring mind. The two chlorine atoms are easily replaced by a variety of organic groups, thus indicating a large number of possible derivatives. This ester has already been suggested specifically in several organic and pharmaceutical syntheses.

kay-fries specifications

purity	• 99.0% minimum
acidity	• .30% maximum
specific gravity	• 1.3759-1.3839 at 20°/20°C
refractive index	• 1.4374-1.4474 at 20°D

typical reactions

$Cl_2CHCOOCH_3 + 2NaOC_2H_5 \longrightarrow (C_2H_5O)_2CHCOOCH_3 + 2NaCl$
Sodium ethylate — methyl diethoxyacetate

$2Cl_2CHCOOCH_3 \xrightarrow{\text{catalyst}} Cl_2C(CCl_2COOCH_3)COOCH_3 + H_2$
methyl tetrachlorsuccinate

$Cl_2CHCOOCH_3 + C_6H_5CHO \xrightarrow{\text{Mg amalgam}} C_6H_5CH_2COCOOCH_3 + Cl_2$
benzaldehyde — methyl phenylpyruvate

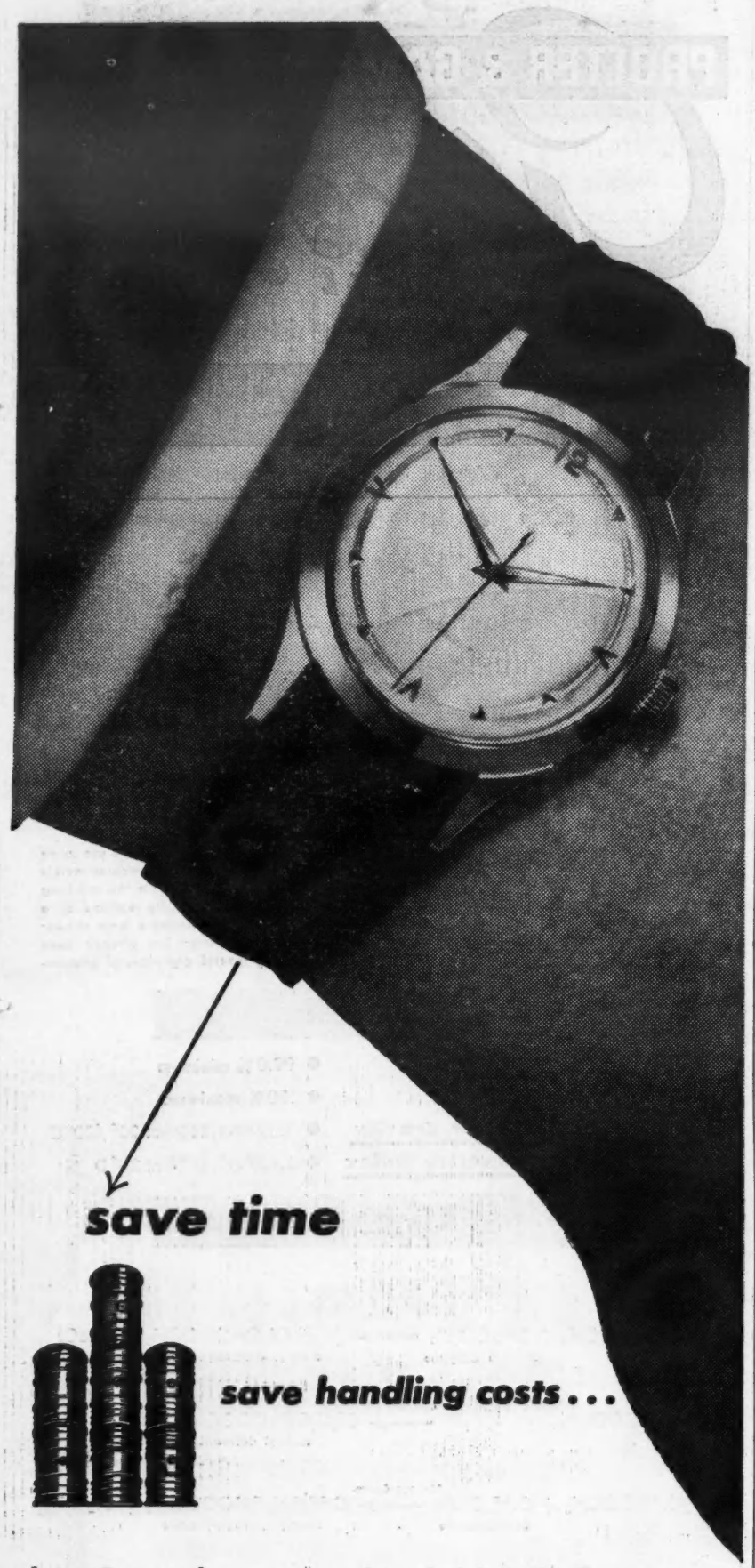
$Cl_2CHCOOCH_3 + RCH=CH_2 \xrightarrow{\text{catalyst}} RCH_2CH_2CCl_2COOCH_3$
subst. ethylene — methyl α-dichloro-γ-subst. butyrate

$Cl_2CHCOOCH_3 + 2CH_2(COOCH_3)_2 \xrightarrow{Na} CH_3OOCCH[CH(CO_2CH_3)_2]_2 + 2HCl$
dimethyl malonate — α-di-γ-di-β-mono-carbomethoxy propane

TECHNICAL BULLETIN AVAILABLE

Write or Phone

American-British Chemical Supplies, Inc.
Selling Agents for
KAY-FRIES CHEMICALS, INC.
100 Madison Avenue, New York 16, N. Y. • MUrray Hill 6-6661



phone Barrett for express tank-truck deliveries of

New York	Hanover 2-7300
Detroit	Vinewood 2-2500
Philadelphia	Jefferson 3-3000
Chicago	Bishop 7-4300
Boston	Malden 2-7460
Cleveland	Cherry 1-5943
†Los Angeles	Mutual 7948
St. Louis	Plateau 2-2572
Indianapolis	Garfield 2076
Newark	Mitchell 2-0960
†Buffalo	Delaware 3600

†Hi-Flash Solvent not available at this station.

Benzol • Toluol • Xylol
Hi-Flash Solvent
when you need them!

At your service—flexible, prompt, dependable deliveries of high-quality aromatic solvents. Call the Barrett office nearest your plant. Distribution in 11 key industrial areas!

BARRETT DIVISION, Allied Chemical & Dye Corporation, 40 Rector St., New York 6, N. Y.

Allied Chemical

Barrett 1854 1954 Centennial

BARRETT SOLVENTS*

*Reg. U. S. Pat. Off.

Coal Chemicals

Another week without price change was passed in the coal chemicals market. Current quotations of most items were relatively firm. A slight improvement in demand from a few directions and a continued low coking production rate have coupled to yield strengthened market positions. The steel rate has been inching up from week to week, but there has not been enough overall change in chemical byproduct output to notice any difference in marsituations.

Benzol, toluol, and xylol remained in a relatively firm spot due to lowered light oil output in the past few months. An increase in demand from various outlets helped firm up these aromatics too. Several coaltar sources are in a soldup position for June. Almost all felt they were in pretty good shape for these products. No critical shortages have developed, or were expected to come about, because there is ample petroleum production available to fill the gap.

General tar acid demand was sustained. There was good movement of cresylic acid and cresols to cresylic resins and other consuming outlets. Phenol has been reported to be moving at a slightly improved rate. The pickup was felt for both natural and synthetic material. Naphthalene continued to show a bit of firmness since imported hot-pressed went up in price. Creosote was still relatively slow.

Phthalic anhydride continued to move in steady volume. A source stated that May had been a little better in sales volume. Styrene monomer moved at a fair level. It was said business was pretty good in the east. Demand for resorcinol was good from glues and the rubber industry. The monochlorobenzene picture was still slow. o-Dichlorobenzene slackened the pace a bit. Aniline activity was still off somewhat.

Steel output during the week ending June 6 was scheduled to be at 70.9 percent of capacity, according to the American Iron and Steel Institute. This was equivalent to 1,690,000 tons, compared with actual output of 1,698,000 tons the prior week, 1,654,000 tons, one month ago, and 2,246,000 tons one year ago.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 5, 1953
114.56	114.56	114.56	114.14

(For Current Prices see page 9)

Basic Products

Benzol—Coaltar sources indicated market conditions for benzol were quite firm. Most producers were in an inventory position, which instead of being long, was now on the tight side. There was little trouble moving the available coaltar output. However, the lower coking rates of recent months have cut supplies to the point where there are bare spots occasionally. Improvement in demand has accompanied the reduced producing rates, also contributing to the firmer position. No critical shortages have developed, and none were anticipated since ample petroleum output was around to fill any emergency needs, if they arose.

March production of specification and industrial grades of benzol totaled 20,335,947 gallons, compared with February output of 19,667,167 gallons, according to Tariff Commission figures. Tar distillation production amounted to 1,709,346 gallons in March, and 1,570,478 gallons in February. Cokeoven operators produced 12,427,861 gallons of the overall total for March, and 11,988,339 gallons of the February figure. Production from petroleum operators in March was 6,198,740 gallons, whereas February output came to 6,108,350 gallons.

Creosote—A moderate demand has remained relatively unchanged in this market. Producers had expected buying interest to pick up more than it has since the start of the warmer weather. One of the factors behind slow market conditions for creosote was the low railroad freight earnings. A slight pickup in carloadings in recent weeks led creosote suppliers to anticipate more improvement in demand for the wood preservative. No price changes were noted.

Cresols—There was particularly significant change in the market for the cresols. General tar acid demand has held up well. These have been one of the steady movers among coaltar chemicals. Inquiries were coming from cresylic resins, tricresyl phosphate, and other outlets at an even rate. No price revisions were reported or anticipated. Supplies were considered adequate to handle most normal calls. However, there were still occasions when a producer couldn't take care of all of the call from tricresyl phosphate for meta-para isomers. Stocks of ortho were still generally long, although some sources have improved their position in that grade.

Production of the meta-para mixed isomers in March totaled 1,328,105 pounds, whereas February output of that grade was 1,192,275 pounds, Tariff Commission figures relate. March output of o-m-p-cresol amounted to 1,185,606 pounds, while February production of ortho-meta-para was 1,408,031 pounds.

Naphthalene — The market for crude has been firmer in recent months. There has been ample material to take care of consumption needs, even though cokeoven production has cut the overall volume of available coaltar chemicals. Producers, however, were able to extract more naphthalene, if consumer interest warranted it. The firmness in the market has partly come from the stronger price situation for imported hot-pressed naphthalene.

The sum of crude naphthalene production in March was 23,400,128 pounds, as against a February total of 24,415,161 pounds of crude solidifying at less than 79°C., according to information from the Tariff Commission. A breakdown of the totals shows that tar distillers turned out 14,104,005 pounds in March, and 17,235,075 pounds in February. Cokeoven production in March amounted to 9,296,123 pounds, while February output had been 7,180,086 pounds. In addition, tar distillation production of refined in March amounted to 6,146,300 pounds, partly estimated, while February production of the 79°C. or over was 5,756,026 pounds.

Phenol—A little pickup in buying interest has been reported for both technical and USP grades. Most of present output has been going to phenolic resins and adhesives. Supplies were ample for current consumption requirements. More production capacity was available if there was a surge in buying. Prices were firm and unchanged.

Production of natural and synthetic phenol of all technical and USP grades totaled 34,271,237 pounds, in March, while output in the previous month amounted to 28,486,781 pounds (revised), Tariff Commission figures indicate.

Toluol—Reductions in steel operations during recent months have been enough to cut light oil stocks below what is needed to take care of all industrial needs. A little nitration toluol has been going to the government on a bid basis. Shortages of supplies in specific areas have not become critical, inasmuch as there is plenty of petroleum material around to fill any gaps left by cokeoven material. Then too, there are shipping points, further away from the large consuming areas, that still have coaltar toluol. But, freight costs do not induce shipments to districts of shortage. However, a slight amount of pickup has been felt by petroleum operators due to short coaltar supplies.

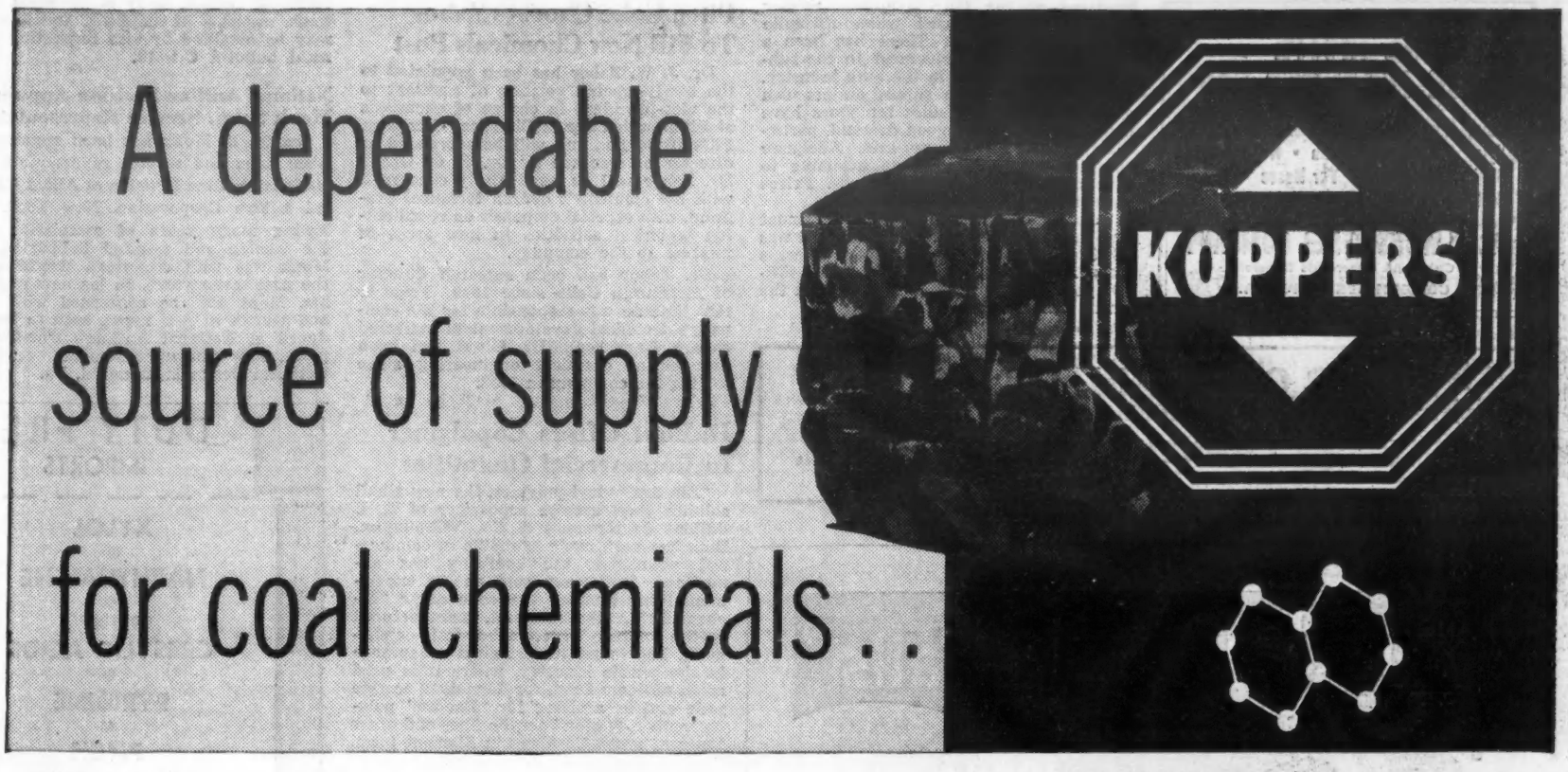
Xylol—No significant change has been noted for this aromatic. Reduced cokeoven output in the past few months has brought a couple of tight spots for coaltar material into the xylol market. Demand from industrial finishes has not been so strong that supplies were really

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending June 6, was as follows:—

Ammonia liquid, NH_3	lbs.	790,451
Ammonium sulfate	lbs.	28,569,140
Benzol	gals.	2,732,700
Coaltar	gals.	12,534,297
Creosote oil	gals.	700,113
Naphthalene, crude	lbs.	1,939,958
Pyridine, refined	lbs.	20,326
Toluol	gals.	537,706
Xylol	gals.	143,410

For Late Market Developments, See Page 4



benzol
toluol
xylol
phenol
ortho cresol
meta-para-cresol
xylenols
cresylic acid
crystal free neutral oil
tar acid oils
pyridine
picolines
lutidines
quinoline
naphthalene—(crude and refined)
ammonium sulphate
ammonium thiocyanate

WRITE FOR OUR FREE BOOKLET

Koppers Company, Inc.
Tar Products Division, Dept. 617-T,
Pittsburgh 19, Pennsylvania

Please send me, without obligation, a copy of your Technical Data Booklet on coal chemicals.

Name.....
Address.....
City.....Zone.....State.....

KOPPERS COMPANY, INC. • DEPT. 617-T, TAR PRODUCTS DIVISION • PITTSBURGH 19, PENNSYLVANIA

critical. Petroleum xylol, which is available, was sufficient to fill any deficit in the larger consuming areas. Firm price schedules have been maintained.

Intermediates

Acetanilide—Producers said that there has not been to much call for the technical material. A relatively steady amount has been going into sulfa drugs, however, that outlet was currently moving into its slow season. Ample supplies were on hand to meet consumers' requests. Prices held steady at previous listings.

Total output of technical and USP grades in March was 340,200 pounds, while February production amounted to 400,400 pounds, according to Tariff Commission statistics.

Aniline—Producers fairly well agreed that total demand aniline was not up to what it should be. Buying interest dropped with the rubber cutbacks late last year and has not fully recovered. It was said that there has been a slight bit of improvement, but not as much as suppliers would like to see. It has been reported that a relatively good call came from specific textile outlets for aniline salt.

March output of this material amounted to 8,141,651 pounds, while February output totaled 9,052,266 pounds, according to figures released by the Tariff Commission.

o-Dichlorobenzene—Producers said that this market was about the same in the past few weeks. Demand has diminished slightly, partially due to engine cleaner business slowing down. There was still some material moving in that direction, it was added. Supplies were considered to be readily available.

Another reason that there has been enough production to meet consumption needs was that the call for para during the heighth of the moth control season allowed stepped up output and a better supply of both isomers. Producers reported the para season is just about over. And, there was still ample ortho around for present demand. Prices held firm and unaltered.

Monochlorobenzene—The overall picture for this intermediate was still relatively slow. There has been a little demand for some material for DDT production. However, producers indicated that production capacity was large enough to carry all of the insecticide needs without running production of mono up to capacity. A lot of the insecticide business was being done by distributors, it was added, although there were occasional small drum orders reaching primary producers. Prices have remained firm at previous listings.

March output of mono totaled 31,963,130 pounds, as against 25,480,274 pounds produced in February, according to Tariff Commission figures.

Phthalic Anhydride—A consistent and well sustained demand from alkyd resins and plasticizers has kept a steady volume of phthalic moving out. Although the sales volume for these outlets has held up well, neither market has looked extraordinarily strong. Plasticizers recently underwent price reductions and competition in alkyd resins has been keen. However, recent weeks have given a little indication of some improvement in phthalic demand. Demand from industrial finishes has been a bit off, due to the fluctuations in automobile and home appliances output. Alkyds have been going well to paint uses for the home painter. Ample production facilities were still available if there were a sudden buildup in domestic needs.

More frequent reports have come in on requests of phthalic for export, although American prices are relatively high compared with European quotations. In the domestic market, some sources have reported quite a good sales period last month. Price schedules of phthalic held firm where they were.

Resorcinol—Activity for this intermediate was reported to be fairly good. Producers were moving steady volumes to glue outlets and some production to the rubber industry. Resorcinol-type waterproof glues were currently in the middle of the producing season. Hence, an even level of activity was expected to be maintained. No price revisions were effected and none were contemplated. Adequate supplies were obtainable on consumer request.

Styrene—Producers said that they have moved the monomer to a fair demand at a relatively steady pace. Some sources indicated that sales were not quite as good as they had been anticipated, but individual districts were doing a satisfactory level of business.

The general rate of sales was felt to measure less than it did at this time last year. However, this was more or less an-

WE INVITE YOUR INQUIRIES FOR

Ammonium Sulphate • Benzol • Toluol
Xylol • Solvent Naphtha • Naphthalene
Sodium Phenolate • Tar Bases • Crude Still Residue

ALAN WOOD STEEL COMPANY
Coke and Chemicals Division
CONSHOHOCKEN, PENNA.

ticipated as the GRS synthetic rubber program was cut back when stockpile goals were achieved. There has been a certain amount of movement to the rubber industry for use in the auto industry. And then, activity for rubber outlets such as rubber tiles and soles for shoes have continued to show a good demand, particularly in the east, it was said. Adequate supplies of monomer were available to take care of consumption needs. Prices were firm and unchanged.

Total March production of government and privately owned plants combined was 63,953,367 pounds of monomer, whereas output in February amounted to 57,467,097 pounds, according to figures from the Tariff Commission.

IRON FILINGS
(GROUND CHEMICAL IRON)

ELIZABETH 1, NEW JERSEY: 200 S. SECOND ST.

CONNELLY, INC.
SINCE 1876

CHICAGO 8, 3154 S. CALIFORNIA AVE.

Pitts. Coke Chooses Zabor To Fill New Chemicals Post

Dr. J. W. Zabor has been appointed to the newly-created position of assistant to the vice-president in charge of chemicals at Pittsburgh Coke & Chemical Company, Pittsburgh, Pa., and will be succeeded as director of research by Dr. E. O. Ohsol. Dr. Zabor will be particularly concerned with the company's overall technical program, with especial emphasis on coordinating technical activities in new areas of interest to the company.

Dr. Zabor had been research director of Pittsburgh Coke since 1949. Prior to that time he was responsible for the company's technical development of activated carbon from coal. Dr. Ohsol had been director of chemical engineering since joining the company in 1952.

DuPont Offers Copolymer In Commercial Quantities

"Elvadex" vinyl polymer, the new alkali soluble vinyl acetate copolymer of E. I. duPont de Nemours & Co., Wilmington, Del., has been made available in commercial quantities, the company has announced. Previously sold on an experimental basis under the code name "Elchem 1273," the material, manufactured by the company's electrochemicals department, has found its principal acceptance in the textile industry, where it is used as an off-loom finish for dope-dyed acetate yarn and as a sizing for "Dacron" polyester fiber, "Orlon" acrylic fiber and other types of synthetic fibers in filament form.

Styrene Monomer Data Issued

A description of styrene monomer and its uses is contained in a twenty-three-page bulletin issued by the chemical division of Koppers Company. Products obtained from this basic chemical, and their applications, are listed as well in this new illustrated bulletin. Properties of the derivatives and specifications of styrene monomer are also given. Copies of this publication may be obtained by addressing a request for bulletin C-4-198 to Koppers Company, chemical division, Koppers Building, Pittsburgh 19, Pa. Supplemental information of a more detailed technical nature, such as chemical reactions, methods of handling, and analysis, may be obtained by also requesting technical bulletin C-4-119.

National Aniline Division Appoints Monk Sales, Service Representative

George B. Monk has been appointed a fiber sales and service representative of National Aniline Division of Allied Chemical & Dye Corporation, New York. Following many years of association with the woolen and worsted industries, Mr. Monk was with American Bemberg for the past seven years. In his new position, Mr. Monk will be concerned with sales and service of A-C nylon, soon to be produced at National Aniline's Chesterfield plant, now under construction at Hopewell and Bermuda Hundred, Va.

DUTY FREE IMPORTS

XYLOL
•
NAPHTHALENE
•
99/100% CRESYLIC ACIDS
•
PYRIDINE
•
PITCH
Other Related Products

NICKEL SALTS

DIRECT IMPORTERS

TAR RESIDUALS Inc.
420 LEXINGTON AVENUE
NEW YORK 17, N. Y. · LE 2-9164

G.P.&F. Pouring Pails

Here is a container that gives your product the protection it deserves. G. P. & F. Pouring Pails are sturdily built and attractive, too. Come in 2½ to 7-gallon sizes —finished in solid colors or lithographed with your own design. Available with spouts shown below.

...with spouts for every need!

You furnish the product... and G. P. & F. will furnish a pouring spout just right for the purpose. All spouts illustrated are available on lug-covered pails and tight head drums.

PULL-OUT SPOUT—1¼" diameter. 45 mm. nozzle opening. Choice of U-Pressit cap and seal or screw cap and inner seal.

FLEXSPOUT — Non-toxic polyethylene resin. 2¼" nozzle opening. Plastic diaphragm and re-sealing cap. Tamper-proof seal.

SHORE SPOUT — Self-venting, fast, smooth pouring. Seamless, extruded aluminum. Fits in 73 mm. nozzle opening.

TRUPOUR SPOUT — A strong, telescopic, tinplate spout. 55 mm. nozzle opening. Available with U-Pressit cap and seal or screw cap and inner seal.

REVERSIBLE SPOUT (Polyethylene)—55 and 63 mm. sizes. Resistant to acids, corrosive materials, alkalies. Tight, leakproof screw cap. Pouring opening, 15/16".

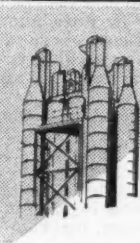
REVERSIBLE SPOUT (Offset Type)—In 55 mm. size with 1¼" gasketed screw cap, 1" pouring opening. Also 63 mm. size with 1" gasketed screw cap and ¾" pouring opening.

G. P. & F. makes a complete line of small steel shipping containers. Our wide variety includes lug cover pails, tight head drums, pouring pails, utility cans, compartment pails, flexspout utility cans, etc.

For Package APPEAL... PRODUCT PROTECTION... CHECK WITH G. P. & F.

GPF STEEL CONTAINERS

GEUDER, PAESCHKE & FREY CO.
301 NORTH 15TH STREET • MILWAUKEE 1, WISCONSIN



A
PRIME SOURCE OF
IMPORTED—DUTY FREE

CRESYLIC ACIDS

Immediate and Continuous Delivery from Large Domestic Stocks

TANK CARS · DRUMS
TANK TRUCKS

MTD

THE MIDLAND TAR DISTILLERS, INC.
654 MADISON AVE., NEW YORK 21
A Subsidiary of The World's Largest Processor of Coal Tar Products—M.T.D. Ltd., Oldbury England

Textile and Leather Chemicals

Scarcity of potato starch in Maine as a result of the practical shut down of mills in Maine further strengthened this market. Quotations were advanced about ½ cent per pound. Offerings at the advance were still scarce. This was reflected in the spot situation and stocks in warehouse here were lifted fractionally. The Idaho market was firm and unchanged, but producers were offering shipments sparingly. Egg yolk albumin and yolk were easier due to lower cost of production. Flake albumin was reduced 5 cents per pound and egg yolk 4 cents per pound, while the technical grade was quotably unchanged.

Trading continued spotty for most textile and leather chemicals last week. Moderate quantities were moved for prompt delivery and prices were well held. Bichromates were in steady request and against current contracts, while new business was slow. Siamese tapioca flour remained steady at prevailing quotations for spot and later delivery. Brazilian flour was inactive and nominal for shipment. Corn starch and dextrin were in fair demand for prompt needs. Sago continued inactive for spot and later delivery.

In the tanning materials group, crushed J 1's myrobalans were steadier and shipments were raised $1 per ton, while other grades were without change. Trading in all tanning materials continued light, with shipments offered at former quotations.

Rayon producers inventories in April continued to drop, declining to 98,300,000 pounds at the end of April, compared with 103,700,000 pounds at the end of March and 83,200,000 pounds, April, 1953. Shipments to domestic consumers in April amounted to 89,300,000 pounds, against 89,900,000 pounds in March and 102,400,000 pounds, April, last year.

Price Trends

Advanced

Myrobalans J1's, crushed, $1 per ton.
Potato starch, Maine, ½c. per lb.
spot, ½c. per lb.

Reduced

Egg albumin, flake, 5c. per lb.
powder, 5c. per lb.
Yolk, 4c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	June 5, 1953
95.80	95.63	95.64	101.15

(For Current Prices see page 9)

Chemicals

Bichromates—Steady movement was reported against former contracts, while new business was restricted to actual needs. Prices were firm for all grades.

Sodium Hydrosulfite — Consumers continued to limit purchases for prompt requirements. Market was quotably unchanged and steady.

Sulfonated Oils — There was little change in this market. Consumers limited demand to actual needs. Quotations were without change.

Sizing Materials

Albumin Blood — Business was still, spotty, with users taking moderate lots for prompt delivery. Prices were unchanged at 65c. to 80c. per pound, according to quantity.

Corn Dextrin—Consumers absorbed fair sized quantities for immediate delivery. Market was unchanged and steady for all grades. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.779, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds more.

Corn Starch—Business was fair, chiefly for prompt delivery. Prices were maintained at former levels. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, and powder, $7.26 per 100 pounds, New York basis. Smaller quantities were 15c. per 100 pounds higher.

Egg Albumin—Prices were easier declining 5c. per pound, due to the lower cost of eggs. Trading was fair, chiefly for immediate requirements. Flake was reduced to $1.50 to $1.52 per pound and powder, $1.54 to $1.56 per pound, depending upon quantity. The technical grade was unchanged at 85c. to 87c. per pound, as to quantity.

Liquid egg production during April totaled 85,030,000 pounds, compared with 73,713,000 pounds in April last year and the 1948-52 average of 93,081,000 pounds, according to the Crop Reporting Board. Quantities used for drying, freezing and immediate consumption were all considerably larger than a year ago.

Dried egg (egg solids) production totaled 3,104,000 pounds, against 2,181,000 pounds in April last year and the average production of 6,919,000 pounds. April production consisted of 487,000 pounds of dried whole egg, 1,073,000 pounds of dried albumen and 1,544,000 pounds of dried yolk. Production during April last year consisted of 272,000 pounds of dried whole egg, 647,000 pounds of dried albumen and 1,262,000 pounds of dried yolk.

Frozen egg production during April totaled 70,332,000 pounds, compared with 64,525,000 pounds in April last year and with the 5-year average of 67,660,000 pounds. Frozen egg stocks increased 49,000,000 pounds in April compared with 34,000,000 pounds in April a year ago. May 1 stocks of frozen eggs totaled 141,206,000 pounds, compared with 98,978,000 pounds a year earlier.

Egg Yolk—Trading was light and spotty. Market was unsettled and lower, declining 4c. per pound. Spot stocks ranged from $1.08 to $1.10 per pound, depending upon quantity. Yolk production in April totaled 1,544,000 pounds, compared with 1,262,000 pounds during April last year.

Potato Starch—Market in Maine was stronger, due to limited stocks held by grinders. Carlots were quoted nominally about 6¾c. to 7c. f.o.b. mills, with offers at the advance still scarce. Consuming inquiry was fair, but actual business was reported quiet. The spot market also was firmer and prices were lifted ½c. to 8¾c. to 9¼c. per pound, exwarehouse, according to quantity. The higher cost of Maine starch resulted in a firmer tone in Idaho starch, and while carlots were unchanged at 6.3c. per pound, f.o.b. mills, offers at this figure were scarcer.

Tapioca Flour—Trading was restricted to actual requirements. Market remained unchanged and steady. Interest of late has been confined to Siamese grades. Top grade shipments were quoted at 6¾c. to 7c. per pound, carlots, exdock; medium, 6¼c. and low grades, 5½c., same basis. On spot, top grade was held at 7½c. to 7¾c. per pound, exwarehouse, according to quantity and seller. Brazilian was quiet. Shipments were nominal at 9c. to 9¼c. per pound, carlots, exdock, while stocks on spot were unchanged and nominal at 13c. to 14½c. per pound, exwarehouse, as to quantity.

Tanning Materials

Chestnut Extract—This market was quiet, though steady. Prices were maintained at prevailing levels. Liquid 25 percent tannin was quoted at 4¼c. per pound, tankcars, f.o.b. work; 5.10c. per pound, barrels, carlots, and 5.43c. barrels, less carlots, powdered, 10.92c. per pound, bags, carlots, and 11.65c., bags, less carlots, same basis.

Cutch—Offers for shipment were light and closely held at 8½c. per pound, exdock, plus duty.

Mangrove Bark—Tanners showed little interest in replacements. Shipments were quotably unchanged for all grades. African bark was quoted at $69 per ton exdock; Ecuadorian, $55 per ton, and Colombian, $58 to $59 per ton, same basis.

Myrobalans—Crushed J 1's were steadier and shipments were lifted to $63 to $64 per ton, exdock. Other grades were unchanged. Assorted J 1's were offered at $47 to $48 per ton and ordinary, $43 to $44 per ton, same basis. Solid extract was quoted at 7½c. per pound, exdock, plus duty.

Quebracho Extract—Despite quiet trading, this market was unchanged and steady. Shipments were maintained at current levels. Solid ordinary was quoted at 11 31/64c. and clarified 12 3/16c. per pound, ex-dock, plus duty.

Valonia—Buying interest continued to lag and market was nominal at former quotations. Beards were quoted at $65 per ton, exdock, and cups, $49 to $50 per ton, same basis. Extract ranged from 9c. to 9¼c. per pound, exdock, plus duty, as to quality.

Wattle—Steady tone prevailed in the market, despite quiet business. Shipments were unchanged and well held. Fair average bark was quoted at $98 per ton, and merchantable, $94 per ton, exdock. South and East African extracts 60 percent tannin, were held at 10c. per pound, exdock, plus city.

For Late Market Developments, See Page 4

Mutual Bichromates
SODIUM BICHROMATE
POTASSIUM BICHROMATE
MUTUAL CHEMICAL CO. OF AMERICA
PLANTS: BALTIMORE JERSEY CITY
99 Park Avenue New York 16, N. Y.

DRY COLORS — DYESTUFFS
IMPORT EXPORT
FEZANDIE & SPERRLE, 205 Fulton St., NEW YORK 7
Telephones: COrtlandt 7-1460-1461 Cable Address: "Fezan," N. Y.

TANNING AND DYEWOOD EXTRACTS
LOGWOOD • HEMATINE • FUSTIC
SUMAC • GAMBIER • HYPERNIC
WATTLE • QUEBRACHO • MYRABOLAM
DIVI-DIVI • TANNIC ACID
YOUNG EXTRACTS HAVE BEEN SERVING THE INDUSTRY FOR MORE THAN 84 YEARS
the J. S. YOUNG CO. 3701 Boston St., Baltimore 24, Md. Philadelphia, Pa. • Chicago, Ill. Paterson, N. J. • Danvers, Mass.

METOL
Monomethylparaminophenol Sulphate
Registered Trade-Mark
TANNIC ACID • GALLIC ACID
(U.S.P. and Technical Grades)
PYROGALLIC ACID • HYDROQUINONE
ZINSSER & COMPANY, INC.
HASTINGS-ON-HUDSON, NEW YORK
Established 1897

10 Basic and Integrated Divisions to Serve You
★ Coal Chemicals Division
★ Agricultural Chemicals Division
★ Protective Coatings Divisions
★ Fine Chemicals Division
★ Plasticizer Division
★ Activated Carbon Division
★ Neville Coke Division
★ Neville Pig Iron Division
★ Green Bag Cement Division
★ Neville Concrete Pipe Company
PITTSBURGH COKE & CHEMICAL CO.
Grant Bldg., Pittsburgh 19, Pa.

BACITRACIN AT ITS BEST!!!

PENITRACIN. *Penick brand BACITRACIN,* is the result of over six years of product research.

Potency – 50 units per mg. and over.

Uniformity—**PENITRACIN** is standardized to exacting specifications for . . .

. . . impalpable fine mesh

. . . uniform density

. . . uniform solution color

PENITRACIN is designed to help you make the finest quality of Bacitracin dosage forms.

PENITRACIN is adaptable to parenteral use in dry powder vials, or to topical use in tablet, troche, ointment, or suppository forms.

PENITRACIN is supplied in bulk only for use by the pharmaceutical manufacturing industry. It is priced competitively, and supplies are available for immediate shipment from full scale commercial production.

Penitracin

(Penick brand BACITRACIN)

S. B. PENICK & COMPANY • ASHEVILLE • NEW YORK • CHICAGO

Basic Products for the Pharmaceutical Industry

S. B. PENICK & COMPANY

50 Church Street, New York 8, N. Y. Telephone COrtlandt 7-1970

135 West Division Street, Chicago 10, Ill. Telephone MOhawk 4-5651

Drugs, Fine Chemicals, Botanicals

Menthol prices continued to advance, on spot, last week. Brazilian menthol was increased 25c. per pound and reflected the strengthening of prices at origin. As frequently happens in the case of natural commodities when prices decline substantially over a period of time, growers in producing areas frequently cut down on the acreage devoted to the production of the item in question with the result that the following year finds the market firming up as the supply-demand picture comes more into balance.

In the case of natural menthol, the market for Brazilian menthol had fallen steadily since 1952 with the result that succeeding peppermint crops were cut back and menthol production curtailed. Consumer demand continues only fair so that the rising trend in the market of late, was attributed primarily as a result of the law of supply and demand. Whether the market will continue to rise, in view of the current rate of consumer demand, remained a matter for conjecture, it was said.

The inquiry for summer chemicals was reported at increasingly better levels as the weather turned warmer. Citric acid and sodium benzoate were moving at excellent rates, according to producers and prices remained unchanged. Supplies were generally adequate to meet consumer requirements although there were some temporarily short situations due to delays in shipment.

Saccharin was reported to be moving at a good rate. The impact of current advertising stressing the desirability for weight reduction in overweight people has led to a substantial upsurge in the demand for so-called non-caloric foods. Saccharin, has been known as a non-fattening sweetening agent for many years. Consumption of saccharin in food and beverages, has increased sharply, as a result it was noted. Pricewise, there has been no change in saccharin quotations in four years and at current levels, there is a considerable price edge held by saccharin when compared with other similar sweetening agents used in the processing of dietic foods.

Imported tartrates continued to show signs of further price strengthening last week. The rising costs of argols abroad as a result of substantial sales being made to countries other than the United States has been reflected in higher replacement costs on imported tartrates.

Caffeine—Demand for caffeine was reported to be moving at good levels. With prices on imported material considerably firmer, domestic producers saw a stable market in the immediate future. Over the past few years the price of domestic caffeine has been cut several times by producers in an effort to counteract the substantial price advantages enjoyed by the imported material. The inroads made by the latter into domestic markets had been a source of concern it was noted.

Some domestic producers have reported that the uniform quality of their material and the absence of color and odor have been strong factors in consumer preference for domestic caffeine compared to imported caffeine. The current price of caffeine was $2.65 per pound, with the anhydrous grade 20c. higher.

Camphor—The spot market continues to strengthen on natural camphor as supplies dwindle. The current schedule on natural camphor powder ranged from 58c. to 65c. per pound, duty paid. Prices on camphor tablets have climbed to quite high levels with dealers reporting prices anywhere from 75c. to 80c. per pound, depending upon size and quantity.

Heavy sales that Formosa has made to India and other countries this year have apparently cleaned out stocks at origin. There was speculation, however, the Formosan producers might be holding back some stock in anticipation of further rises in the spot market here. Real concern has been expressed over the dearth of Formosan camphor powder since, for many uses, synthetic camphor cannot be substituted. However, there has been some switching from natural to synthetic camphor as a result of the high prices on the natural, it was said. Synthetic camphor, of which there was an adequate supply, was currently quoted at 54c. in 2,000 pound lots, for the powder and at 85c. for tablets.

While there was reportedly some natural camphor powder being offered from Japan, the shipping price was still considerably higher than current Formosan camphor prices. There has been little buying of Japanese camphor tablets in view of the availability and superior packaging of the synthetic product, it was said.

Concerning the market outlook for the immediate future, it appeared that prices would continue firm on spot and that supplies would remain tight.

Menthol—The market in natural, Brazilian menthol continued to exhibit strength. The rising trend in menthol prices in recent weeks was attributed to higher replacement costs at the source. As frequently happens in the case of a depressed market, producers cut down on their plantings with the ultimate result that yields in the following year are lowered and the market thereupon takes an upward trend as supply-demand comes more into balance. This could be described as the situation developing in menthol, some trade sources averred.

An additional important factor in the rising market for natural menthol has been the strengthening in synthetic menthol prices due to the rise in raw material costs there. The outlook for the immediate future could be described as being firm, pricewise. Overall demand for menthol has fallen off seasonally, in some uses, although maintained on an even keel in such industries as the tobacco industry.

Spot quotations on natural menthol advanced 25c. last week and were quoted at $5.60 to $5.75 per pound. Prices on leavo menthol were quite firm as a result of the continued advance in the price of citronella oil.

Molasses — Feed molasses prices were generally unchanged from the preceding week. At New Orleans, the price continues at 10½c.-11c. per gallon with scattered reports at 10¼c. per gallon on immediate shipments. The demand situation in New Orleans was reported as being generally slow, with buyers placing orders at prices mostly in the neighborhood of 10½c.

Demand at Houston, Mobile and Savannah was moderate with supplies adequate. At Houston the price was 11½c. per gallon while Mobile was quoted at 12c. per gallon and Savannah 12c. Inquiry was slow to moderate at Jacksonville and Clewiston with quotations at 12c. at the former and from 10½c. to 11c., at the latter. Supplies were ample.

On the east coast, Baltimore and Philadelphia reported a slow to moderate demand with prices at 12c. New York reported moderate demand and a 12c. price.

The delivered to port price for Puerto Rican molassses was quoted at 8c. per gallon last week. No direct sales price to U.S. buyers were heard.

Quinine—The market continued at routine levels for quinine and its derivatives. Medicinal usage of quinine has diminished to a very low point with the result that it has become a relatively unimportant item in the medical field. Existing uses for quinine currently include its use in the manufacture of quinine water. Consumption of this beverage should hit its annual seasonal peak during the warm weather months ahead, it was said. Pricewise, there were no new developments in the quinine picture. Schedules remained unchanged.

Saccharin—Demand for saccharin was repored to be moving at good levels. The increased emphasis on dieting has led to the greatly expanded consumption of saccharin both on the ultimate consumer level and in the manufacture of non-fattening foods. Consumption of non-fattening beverages was expected to hit a higher rate with a salutary effect on saccharin consumption, it was pointed out. Other dietic goods are expected to account for a substantial proportion of saccharin consumed. Pricewise, saccharin has a sizable edge over other similar sweetening

For Late Market Developments, See Page 4

Price Trends

Advanced

Menthol, Brazilian, 25c. per lb.

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	June 5, 1953
70.99	70.99	71.84	73.66

(For Current Prices see page 9)

Bromine

- Highest purity available
- Car loads, truck loads, cases and drums

THE CHEMICAL DIVISION OF
McKESSON & ROBBINS
INCORPORATED
BOSTON • BURLINGTON • CEDAR RAPIDS • CHICAGO • CLEVELAND • DALLAS • DECATUR
DES MOINES • HOUSTON • LOS ANGELES • MOBILE • NEW YORK • OMAHA • PEORIA
PHILADELPHIA • ST. PAUL • ST. LOUIS • SAN ANTONIO • SAN DIEGO • WICHITA
Nationwide distributors of heavy and fine chemicals

Meer Corp.
Importers processors

Top quality is guaranteed in Meer products by constant vigil and control of processing operations

BOTANICAL DRUGS
whole — milled

BOTANICAL DRUG EXTRACTS
solid — powdered — fluid — tincture

WATER SOLUBLE GUMS

Available for immediate shipment

Meer Corporation
318 West 46th Street
New York 36, New York
plant: North Bergen, N. J.
telephones: JUdson 6-0900 (NY)
UNion 6-3900 (NJ)

GUMS
(CRUDE, POWDERED)
ARABIC
GHATTI
KARAYA
(INDIAN)
LOCUST
(CAROB FLOUR)
TRAGACANTH
CASEIN
MENTHOL
(NATURAL CRYSTALS)
EGG ALBUMEN
BLOOD ALBUMEN
JAPAN WAX
QUINCE SEED
REPRESENTATIVES:
CHICAGO:
CLARENCE MORGAN, INC.
BOSTON:
P. A. HOUGHTON, INC.
PHILADELPHIA:
HARRY W. GAFFNEY
LOS ANGELES:
C. H. OWINGS
ST. LOUIS:
C. L. IORNS CO.
PAUL A.
DUNKEL
AND COMPANY, INC.
IMPORTERS AND EXPORTERS
26 JOURNAL SQ., JERSEY CITY 6, N. J.
JOurnal Sq. 3-6400
CHICAGO: 325 NO. WELLS ST.
TEL. SU. 7-2462

agents, a fact which should keep consumption high. The current schedule on saccharin was $1.60 in 1,000 pounds lots for the granular, soluble grade with the powdered grade 5c. per pound higher, in the same quantity bracket.

Sodium Benzoate—Demand for this compound continued at good levels. Producers expect consumption to be maintained at high seasonal levels during the coming months of warm weather. Supplies were reported to be in balance with demand, on the whole and prices were steady.

Tartaric Acid—Demand for domestic tartaric acid was moving at steady levels, according to producers. The strengthening trend in imported tartrate prices has had a salutary affect upon consumption of domestically produced tartaric acid, it was said. It has been reported that consumers, in general, were swinging more to the use of the domestic acid as prices move up on the imported material. It was claimed that the domestic acid was more reliable as to quality, regarding color and odor, than the imported. With the former price edge held by the imported acid rapidly narrowing with the advancing trend in raw materials abroad, there has been increased incentive to buy domestic acid, it was noted.

Currently, imported tartaric acid was priced at 34c. per pound, duty paid. There were indications in some quarters that prices would advance still higher in view of the high prices being asked for argols, the raw material used in the manufacture of tartaric acid. Domestic prices schedules remained unchanged and have been unaffected to date by the rising price trend in the argols.

Botanicals

An improved demand was noted in some quarters in the botanical drugs market last week. It was ascribed to increased anxiety on the part of some consumers to stock up on materials which might be unobtainable or very tight if the situation in the Far East should continue to deteriorate. According to our political savants, the fall of Indo-China might be expected to precede the loss of neighboring countries. The effects on trade would approximate closely the conditions during World War II when many commodities were unobtainable.

In water soluble gums, an interesting development has been shaping up. Substantial quantities of Karaya gum have been tied up due to detentions by the FDA. A short supply situation on spot could be the result, it was felt, although consumer demand was unchanged, on the whole. Reconditioning costs will up the costs of dealers importing the gum and were expected to be reflected in the ultimate market prices if detentions continue, it was said. The market abroad on most of the water soluble gums, karaya, locust bean, tragacanth and arabic was firm, for the most part.

Gum Karaya — Detensions of karaya gum on a large scale by the FDA have been noted in recent weeks. Some 2,500 bags were reported to have been detained, to date, due to failure to meet specifications. The last time any substantial amounts of this gum were held up for recleaning was in 1949, according to trade sources. Continued rejections of karaya gum could possibly lead to shortages on the spot market, it was pointed out. Reconditioning costs are high and facilities limited, a combination of factors which could lead to an advance in spot prices if demand were to increase to any notable extent.

Abroad, the market has been exhibiting a tendency toward weakness. Consumer inquiry has been at generally routine levels, although the continuance of rejections could constitute an incentive for consumers to stock up in advance of any increase i spot quotations. Spot quotations on Karaya gum No. 1 were at 38c.; No. 2 grade was at 29c., while No. 3 was 4c. lower per pound.

Juniper Berries—Demand for this botanical was reported to be slow, on the whole. The large consumers were said to have enough on hand for immediate needs although there was reportedly a shortage of hand picked berries available on the spot market. Since the manufacture of gin is one of the primary consuming sources of this item, the approach of the warm weather with its increase in beverage consumption could be expected to have a salutary effect upon the market for juniper berries, it was said. Prices

PRENTISS DRUG & CHEMICAL CO. INC. NEW YORK, N.Y.
PRENTISS FULL LINE OF QUALITY TESTED PRODUCTS
Botanical Drugs
Cod Liver Oil U.S.P. (British)
Camphor, Synthetic U.S.P.
Chloroform, U.S.P. and Technical
Insecticides
Rodenticides
RAX POWDER — WARFARIN CONCENTRATE
Prentiss Drug & Chemical Company Inc.
110 WILLIAM STREET, NEW YORK 38, N. Y. • 9 SO. CLINTON STREET, CHICAGO 6, ILL.

currentiy ranged from 16c. to 18c. per pound.

Licorice Root—The market situation in this item has been quite stable for some months. Detentions of licorice root at port of entry, which were becoming the bane of dealers and consumers alike last year, have been cut down to an insignificant amount of the total brought in without such difficulty. Cleaning and grading of root at origin to meet FDA standards have eliminated most of the former difficulty of passing inspection here. Prices, as a result, have been very steady. Whole root was quoted from 8c. to 12c. while powdered root ranged from 12c. to 17c. and granular, 10c. to 15c.

Locust Bean—There was no change reported in the spot market with quotations ranging from 31c. to 33c. per pound. The market at origin was said to be higher than spot prices for replacement. Most dealers here, however, were reported to have stocked up at lower price levels and consequently, there were no indications that there would be any advances on spot prices in view of current slackness in consumer inquiry.

Nux Vomica—Demand was quiet. Supplies were adequate to meet current inquiry and prices ranged from 10c. to 12c. on the whole root and from 15c. to 17c. on the powdered.

Passion Flower Herb—Demand for this botanical was reported as being fair. Supplies were ample to meet inquiry and prices ranged from 21c. to 23c., on spot. New crop material should be coming into the market in the near future. The size of the crop may have some effect upon current market values, it was said.

Quassia Chips—The market was quiet with demand at routine levels for this time of year. Supplies were adequate for consumer requirements and prices were around 17c., on spot.

Quince Seed—Spot supplies of quince were reported to be growing tighter with replacement prices most likely due to advance. The current situation in the Middle East has not been conducive to harvesting any sizable crop, it was noted. Offerings from India and Africa said to be of a lower quality than the Middle Eastern quince seed. Prices were nominal at $2 per pound.

Tragacanth Gum—No changes were reported in the market on spot. Quotations ranged from $2.85 to $2.90 on No. 1 grade; $2.45 to $2.50 on No. 2, and from $1.60 to $1.70 on No. 3 grade. Powdered, USP, tragacanth, was quoted at $1.25 to $1.35 per pound.

Wahoo Root Bark—The market continued to be quoted on a nominal level with the current quotation at $2.60 per pound and little material reportedly around. The new crop will not be in for some time yet, it was said.

White Pine Bark—Demand for this botanical item was reported to be quiet. Buying for next winter's requirements was expected to start when new crop material begins to make its appearance. Current spot quotations ranged from 20c. to 22c. on the rossed bark.

Wild Cherry Bark—New crop material has been coming into the spot market, according to trade sources. Demand, at the present time, was seasonally quiet and it was not expected that consumers would start anticipating next winter's requirements for some time yet. Prices ranged from 18c. to 19c. on the thin, natural bark and from 19c. to 22c., on the rossed.

Fritzsche Adds 3 Items To Its Flavorings Line

Fritzsche Brothers, New York, has developed three additions to its flavor line. These are:—"Oleoresin Black Pepper New," "Oleoresin Sage Dalmation" and "Oleoresin Pimenta Berries."

The black pepper flavor produces a sharp peppery aroma and assures uniform distribution of finely divided piperine throughout the batch. The sage Dalmatian reproduces in concentrated form the complete aroma and flavor of Dalmatian sage leaves. The pimenta berries flavor is a dark olive-green liquid that imparts the flavor and odor of the natural spice, Fritzsche said.

Welsbach, St. Joseph's College, Are Working on Study on Ozone

Welsbach Corporation, Philadelphia, has announced that the company's ozone processes division will work with the graduate department of chemistry of St. Joseph's College, Philadelphia, in a cooperative study of the expanding application of ozone to organic and inorganic chemical processes. The study, which will start this month, will be made by graduate students at the college under the supervision of Dr. Allison Maggiolo, development director of the ozone processes division of Welsbach.

Panama Tightens Rules On Importation of Drugs

All medicinal products must be labeled in the Spanish language and must bear the registration number designated for each product by the Panamanian Department of Health to qualify for importation into Panama, the Department of Commerce announced last week. This requirement became effective May 1, it was stated.

Panamanian consuls abroad have been notified to refrain from certifying invoices covering medical products for shipment to Panama which do not conform to the new regulations. The labeling responsibility thus has been shifted from the Panamanian importer to the supplier abroad.

Formerly labeling requirements had to be met only before being placed on sale in Panama. Panamanian labeling requirements for pharmaceutical and medicinal products are shown in the Department of Commerce circular, "Panama — Pharmaceutical Regulations," Business Information Service, World Trade Series No. 521, January, 1954. The circular is available from the Bureau of Foreign Commerce, Department of Commerce, Washington 25, D. C., or from its field offices.

FOUNDED T&B 1856

98 Years Serving the Trade in

GUMS

Arabic Karaya Tragacanth

Textile Print Gum (Tab-A-Tex)

Locust Bean Guar

Phone ALgonquin 5-1588

THURSTON & BRAIDICH

286 Spring St., New York 13, N.Y. • Agents in Principal Cities in U.S.A.

Warehouses: P. N. SODEN & CO. LTD.—2143 St. Patrick Street, Montreal, Canada
A. C. DRURY & CO. INC.—219 East North Water Street, Chicago, Illinois
MELVIN VINCENT ASSOC.—1807 East Olympic Blvd., Los Angeles, California
M. O. GROVE & CO.—310 Sacramento Street, San Francisco, California

Vitamin E

and "preemies"...

Says one team of investigators: We are born low in vitamin E and make up the deficiency from our mothers' milk. If we are born too soon and have, therefore, to be fed with unnatural fluids, the scanty vitamin E in our blood declines even further.

Says another team: Premature infants are not particularly deficient in vitamin E.

Says a French obstetrician who has given concentrated attention to the subject: To reduce vascular fragility in the premature, give large doses of α-tocopherol during labor to women who are giving birth prematurely.

Says a pediatric research man: Vitamin E blood level in the prematurely born does not start rising for two months after birth, whereas full-termers start building up their vitamin E within five days.

Says a Spanish pediatric paper: Vitamin E stimulates all functions which are slowed or absent because of prematurity.

Says a survey in a journal of nutrition: Large doses of vitamin E administered to premature infants may be an important factor in preventing retrolental fibroplasia (a blindness of "preemies").

Says a more recent paper by a California researcher: Nobody knows the cause of retrolental fibroplasia, and neither vitamin E, ACTH, nor mothers' milk has prevented it. Avoid premature delivery, if possible.

Such are some of the voices and some of the leads to future research. We do not presume to say who is right, nor is it our business to offer clinical recommendations. We go on making vitamin E for the ever-growing demands of the pharmaceutical industry. We sell it in bulk only, as distilled concentrates of *d*-alpha-tocopheryl acetate, pure crystallized *d*-alpha-tocopheryl acetate, or as distilled mixed tocopherols. We'll be happy to advise on formulation problems, make a quotation, and ship from stock. ***Distillation Products Industries,*** Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies and Company, Los Angeles and San Francisco • Charles Albert Smith Limited, Montreal and Toronto.

leaders in research and production of vitamin E

DPi

Also . . . vitamin A . . . distilled monoglycerides . . . more than 3500 Eastman Organic Chemicals for science and industry.

Distillation Products Industries *is a division of* **Eastman Kodak Company**

Greeff
SERVING THE CHEMICAL INDUSTRY SINCE 1880

MEPHENESIN
N.N.R.

•

Manufactured by
FRIES BROS., INC.

R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

Lime Superconcentrate Developed at USDA Lab

A new thirty-five-fold unsweetened lime-juice superconcentrate has been developed by chemists of the Department of Agriculture's citrus products station at Winter Haven, Fla. The station had previously developed a sweetened eight-fold limeade concentrate and an unsweetened sixteen-fold lime-juice concentrate.

The outstanding advantage offered by these products is the saving in space and transportation costs, without flavor loss. The concentrated products are prepared entirely from fresh fruit, except that sugar is added as needed. Product control during processing is possible in that the oil content, soluble solids-acid ratio, and concentration can be held as desired, making uniform products possible, it was said.

The unsweetened thirty-five-fold lime superconcentrate is prepared by concentrating about twelve volumes of fresh juice to two volumes, adding one volume of lime puree, and freezing. Limeade is prepared by adding about four pounds of sugar to one pint of concentrate and diluting to 4⅜ gallons. The sweetened eight-fold limeade concentrate is prepared by concentrating about 7.5 volumes of lime juice to three volumes, adding one volume of puree, sweetening to about 68 percent soluble solids, and freezing. The limeade consists of seven volumes of water to one volume of concentrate.

Junice Labs Incorporates

Junice Laboratories, Inc., Clifton, N. J., recently incorporated. Established in 1947 under the proprietorship of William J. Junice, the company produces bulk pharmaceuticals, such as sulfacetamide compounds and aminophylline. Junice Laboratories also specializes in custom-made chemicals and in reprocessing drugs which are rejected by the Food and Drug Administration.

World Health Organization Position Goes to Dr. Henry van Zile Hyde

Dr. Henry van Zile Hyde, chief of the division of international health of the Public Health Service, has been unanimously elected chairman of the executive board of the World Health Organization, which ended a three-day meeting at Geneva, Switzerland, last month. He succeeds Dr. Melville Mackenzie, principal medical officer of the Ministry of Health, England. The board also elected Prof. O. Andersen of Denmark, and Dr. M. J. Ferreira of Brazil to be vice-chairman.

BERKSHIRE

BOBC BERKSHIRE CHEMICALS

BORON
MERCURIALS
CARBAMATES
ZIRCONIUM CHEMICALS
VANADIUM CHEMICALS
AGRICULTURAL MAGNESIA

BARIUM CARBONATE
BARIUM OXIDE
BARIUM HYDRATE
BARIUM SULPHATE, USP, X-RAY
POTASSIUM NITRATE, REFINED and AGRICULTURAL
AMMONIUM METAVANADATE
BORON, AMORPHOUS
EPSOM SALTS, U.S.P. and TECHNICAL
SODIUM HYDROXIDE, PELLETS, NF and REAGENT

BERKSHIRE Chemicals inc
GRAYBAR BUILDING
420 LEXINGTON AVENUE • NEW YORK 17
LExington 2-5959 • "BERKSKEM" New York
55 New Montgomery St. • San Francisco 5, Cal.
Represented in Philadelphia, Boston, Cleveland and Chicago through the Innis, Speiden offices.

Mono
Stearates
Di

of

MADE TO MEET YOUR SPECIFICATIONS

• DIGLYCOL
• ETHYLENE GLYCOL
• DIETHYLENE GLYCOL
• POLYETHYLENE GLYCOL
• PROPYLENE GLYCOL
• POLYOXYETHYLENE
• BUTOXYETHYL
• GLYCERINE

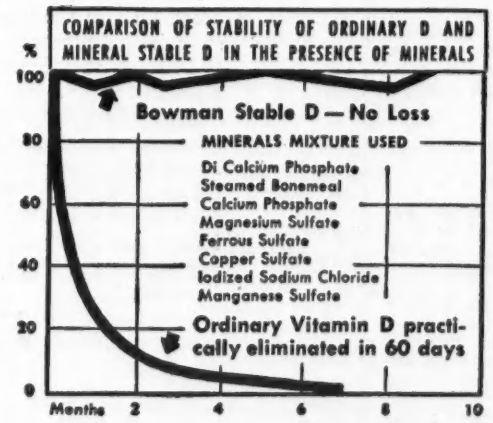
THE FLAME AND THE FLASK — SYMBOL OF QUALITY

WRITE FOR SAMPLES, DATA, ETC.

The C. P. Hall Co.
CHEMICAL MANUFACTURERS
5149 W. 67th Street, Chicago 38, Illinois
AKRON, OHIO • CHICAGO, ILL. • NEWARK, N. J. • LOS ANGELES, CAL.

SPECIAL VITAMIN D
FOR PHARMACEUTICALS

MINERAL STABLE D_2 OR D_3



This fine free flowing powder is the *stability* answer to combinations of Di Calcium Phosphate or other minerals with Vitamin D in tablets, capsules or powders.

Product of N. V. Philips-Roxane, The Netherlands.

ALSO { CALCIFEROL U.S.P. (Crystalline D_2)
PURE VITAMIN D_3 Powder Form
D_3 CRYSTALS U.S.P.

Write for technical descriptive pamphlet

CHARLES BOWMAN & CO.
220 E. 42nd Street, New York 17, N. Y.
130 Central Ave., Holland, Michigan

Current Prices

—Continued from page 33

Wax, carnauba, No. 2, bgs., ton lots lb. 1.10 - 1.12
No. 1, Parnahyba, bgs., ton lots lb. 1.15 - 1.17
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, bgs lb. .40 - .42
Microcrystalline, 170°-175°F., m.p., ASTM, penetration 15-20, amber, ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis lb. .25 - .26
180°-185°F., m.p., ASTM, penetration, 7-11, amber, ctns., 20,000 lbs., same basis lb. .16 - —
smaller lots, same basis lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
smaller lots, same basis lb. .15½- —
white, ctns., 20,000 lbs., same basis lb. .27 - —
smaller lots, same basis lb. .28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
imported, crude, Bohemian, bgs lb. .13½- .14
German, bgs lb. .14 - .14½
Ouricury, refd., bgs lb. .99 - 1.00
Paraffin (see P).
Spermaceti, blocks, cs lb. .25½ .31
cakes, cs lb. .26½ .32
Sugar cane dom., ref'd., slabs, works lb. .75 .80
spot lb. .77¼ .82¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .20 - .22
White precipitate, USP, powd., dms. lb. 6.05 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, natural, bls lb. .18 - .19
rossed, bls lb. .19 - .22
Ginger (see Snake root, Canada).
Witch hazel bark, bls lb. .16 - .17
leaves, bls lb. .23 - .24
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .20 - .25
Levant, bgs lb. 4.25 - 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7°C. b.r., except meta, dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
meta fraction, over 7°C. b.r., dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
Xylidines, mixed, dms lb. .39 - .50
Xylol, coaltar, indust., tanks, works, Bethlehem, Pa. gal. .34 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .35 - —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, O gal. .32½- —
petroleum, indust., tanks, works:—
Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill gal. .35 - —
Houston, Tex. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, ens lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb. .52 - —
200 Int'l B units per gram, 100-lb dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island St. Louis St Paul lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below
Benzidine, AAA, bbls., dlvd. lb. 1.91 - —
AAOT bbls. lb. 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.15 - —
Cadmium yellows, Los Angeles, and San Francisco ex whse. 1c per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher dlvd. Pac. Coast; for Denver Pueblo, Salt Lake City Wichita prices are equalized with Chicago.
Hansa, 10 G, bbls., same basis as yellow, chrome lb. 2.15 - —
G pigment, bbls lb. 1.91 - —
Yellow, iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., l.c.l. lb. .038 - —
pure, bgs., c.l., works lb. .10½- —
l.c.l., works lb. .10¾- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 5.10 - —
smaller lots lb. 5.12 - —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd. lb. .25 - —
basic, dlvd. lb. .30 - —
Yerba santa leaves, bls lb. .40 - —
Yohimbine hydrochloride, bots, tin. oz. 4.75 - 5.25

Z

Zein, bgs., 30,000-lb. lots, works lb. .38 - —
1,000 to 30,000-lb lots, works lb. .40 - —
smaller lots, works lb. .43 - —
Zinc acetate, tech., bbls., dms., works lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. E lb. .192 - —
l.c.l., dlvd E lb. .203 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd., dms lb. .26 - —
solution 50% dms., c.l., works. 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —
tech., fused, dms., c.l., works. 100 lbs. 10.10 - —
l.c.l., works, dms 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
l.c.l., works 100 lbs. 11.00 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works lb. .543 - —

Chlorophyll...
for pharmaceutical and industrial use
NATIONAL CHLOROPHYLL & CHEMICAL COMPANY
LAMAR, COLORADO
Sales office—350 East 35th Street, New York 16, N.Y.
Phone: MUrray Hill 3-1288

FAIRMOUNT CHEMICAL CO., INC.
600 FERRY ST., NEWARK 5, N.J.
Thiosemicarbazide
Semicarbazide Hydrochloride

Here are just some of the advantages Bagpak Multiwall Bags give you and your customers.

• Lower packaging costs • Reduced freight costs • Better stacking of filled bags • Both filled and empty bags require less storage space • Shipping and storage on Bagpak Disposable Pallets cut unloading costs • Maximum protection against sifting, contamination, infestation, dampness • Full measure always emptied • Minimum dust hazard • Advertising message can be printed on face of bags

Bagpak production and quality are backed by the tremendous countrywide facilities and resources of the International Paper Company. For complete information and suggestions as to how you can package and ship your product more profitably, write: Dept. O-20 Bagpak Division, 220 E. 42 Street, New York 17

International Paper COMPANY
BAGPAK DIVISION
BRANCH OFFICES: Atlanta · Baltimore · Baxter Springs, Kansas · Boston · Chicago · Cleveland · Dallas · Denver · Detroit · Kansas City, Kansas · Los Angeles · Louisville · Minneapolis · New Orleans · Philadelphia · Pittsburgh · St. Louis · San Francisco · IN CANADA: The Continental Paper Products, Ltd., Montreal, Ottawa, Toronto

Greeff
SERVING THE CHEMICAL INDUSTRY SINCE 1880

MEPHENESIN
N.N.R.

•

Manufactured by
FRIES BROS., INC.

R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

Lime Superconcentrate Developed at USDA Lab

A new thirty-five-fold unsweetened lime-juice superconcentrate has been developed by chemists of the Department of Agriculture's citrus products station at Winter Haven, Fla. The station had previously developed a sweetened eight-fold limeade concentrate and an unsweetened sixteen-fold lime-juice concentrate.

The outstanding advantage offered by these products is the saving in space and transportation costs, without flavor loss. The concentrated products are prepared entirely from fresh fruit, except that sugar is added as needed. Product control during processing is possible in that the oil content, soluble solids-acid ratio, and concentration can be held as desired, making uniform products possible, it was said.

The unsweetened thirty-five-fold lime superconcentrate is prepared by concentrating about twelve volumes of fresh juice to two volumes, adding one volume of lime puree, and freezing. Limeade is prepared by adding about four pounds of sugar to one pint of concentrate and diluting to 4⅓ gallons. The sweetened eight-fold limeade concentrate is prepared by concentrating about 7.5 volumes of lime juice to three volumes, adding one volume of puree, sweetening to about 68 percent soluble solids, and freezing. The limeade consists of seven volumes of water to one volume of concentrate.

Junice Labs Incorporates

Junice Laboratories, Inc., Clifton, N. J., recently incorporated. Established in 1947 under the proprietorship of William J. Junice, the company produces bulk pharmaceuticals, such as sulfacetamide compounds and aminophylline. Junice Laboratories also specializes in custom-made chemicals and in reprocessing drugs which are rejected by the Food and Drug Administration.

World Health Organization Position Goes to Dr. Henry van Zile Hyde

Dr. Henry van Zile Hyde, chief of the division of international health of the Public Health Service, has been unanimously elected chairman of the executive board of the World Health Organization, which ended a three-day meeting at Geneva, Switzerland, last month. He succeeds Dr. Melville Mackenzie, principal medical officer of the Ministry of Health, England. The board also elected Prof. O. Andersen of Denmark, and Dr. M. J. Ferreira of Brazil to be vice-chairman.

BERKSHIRE

BORON
MERCURIALS
CARBAMATES
ZIRCONIUM CHEMICALS
VANADIUM CHEMICALS
AGRICULTURAL MAGNESIA

BARIUM CARBONATE
BARIUM OXIDE
BARIUM HYDRATE
BARIUM SULPHATE, USP, X-RAY
POTASSIUM NITRATE, REFINED and AGRICULTURAL
AMMONIUM METAVANADATE
BORON, AMORPHOUS
EPSOM SALTS, U.S.P. and TECHNICAL
SODIUM HYDROXIDE, PELLETS, NF and REAGENT

BERKSHIRE Chemicals inc.
GRAYBAR BUILDING
420 LEXINGTON AVENUE • NEW YORK 17
LExington 2-5959 • "BERKSKEM" New York
55 New Montgomery St. • San Francisco 5, Cal.
Represented in Philadelphia, Boston, Cleveland and Chicago through the Innis, Speiden offices.

Mono
Stearates
Di

of

MADE TO MEET YOUR SPECIFICATIONS

- DIGLYCOL
- ETHYLENE GLYCOL
- DIETHYLENE GLYCOL
- POLYETHYLENE GLYCOL
- PROPYLENE GLYCOL
- POLYOXYETHYLENE
- BUTOXYETHYL
- GLYCERINE

THE FLAME AND THE FLASK — SYMBOL OF QUALITY

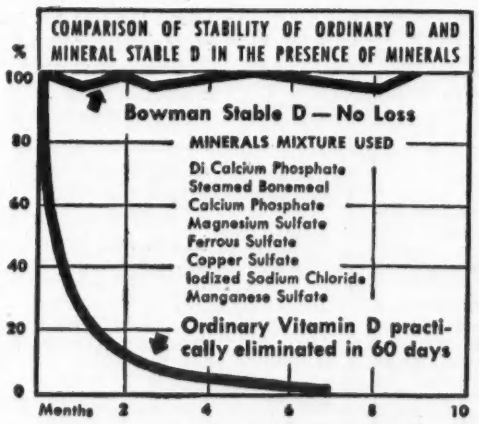
WRITE FOR SAMPLES, DATA, ETC.

The C. P. Hall Co.
CHEMICAL MANUFACTURERS

5149 W. 67th Street, Chicago 38, Illinois
AKRON, OHIO • CHICAGO, ILL. • NEWARK, N. J. • LOS ANGELES, CAL.

SPECIAL VITAMIN D
FOR PHARMACEUTICALS

MINERAL STABLE D_2 OR D_3



This fine free flowing powder is the *stability* answer to combinations of Di Calcium Phosphate or other minerals with Vitamin D in tablets, capsules or powders.

Product of N. V. Philips-Roxane, The Netherlands.

ALSO { CALCIFEROL U.S.P. (Crystalline D_2)
PURE VITAMIN D_3 Powder Form
D_3 CRYSTALS U.S.P.

Write for technical descriptive pamphlet

CHARLES BOWMAN & CO.
220 E. 42nd Street, New York 17, N. Y.
130 Central Ave., Holland, Michigan

Current Prices

—Continued from page 33

Wax, carnauba, No. 2, bgs., ton lots. lb. 1.10 - 1.12
No. 1, Parnahyba, bgs., ton lots. lb. 1.15 - 1.17
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, bgs. lb. .40 - .42
Microcrystalline, 170°-175°F., m.p., ASTM, penetration 15-20, amber, ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis. lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis. lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis. lb. .25 - .26
180°-185°F., m.p., ASTM, penetration, 7-11, amber, ctns., 20,000 lbs., same basis lb. .16 - —
smaller lots, same basis. lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
smaller lots, same basis. lb. .15½- —
white, ctns., 20,000 lbs., same basis lb. .27 - —
smaller lots, same basis. lb. .28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis. lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis. lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis. lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
imported, crude, Bohemian, bgs lb. .13½- .14
German, bgs lb. .14 - .14½
Ouricury, refd., bgs lb. .99 - 1.00
Paraffin (see P).
Spermaceti, blocks, cs lb. .25½ .31
cakes, cs lb. .26½ .32
Sugar cane dom., ref'd., stabs, works lb. .75 .80
spot lb. .77¼ .82¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .20 - .22
White precipitate, USP, powd., dms. lb. 6.05 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, natural, bls lb. .18 - .19
rossed, bls lb. .19 - .22
Ginger (see Snake root, Canada).
Witch hazel bark, bls lb. .16 - .17
leaves, bls lb. .23 - .24
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .20 - .25
Levant, bgs lb. 4.25 - 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7°C. b.r., except meta, dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
meta fraction, over 7°C. b.r., dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
Xylidines, mixed, dms lb. .39 - .50
Xylol, coaltar, indust., tanks, works, Bethlehem, Pa gal. .34 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .35 - —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, O gal. .32½- —
petroleum, indust., tanks, works:—
Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill gal. .35 - —
Houston, Tex. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal .35 - —
Wood River, Ill. gal .35 - —

Y

Yara yara, ens lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb. .53 - —
200 Int'l B units per gram, 100-lb dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island St. Louis St Paul lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below
Benzidine, AAA, bbls., dlvd. lb. 1.91 - —
AAOT bbls. lb. 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.15 - —
Cadmium yellows, Los Angeles, and San Francisco ex whse. 1c per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss.; N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher dlvd. Pac. Coast; for Denver Pueblo, Salt Lake City Wichita prices are equalized with Chicago.
Hansa, 10 G, bbls., same basis as yellow, chrome lb. 2.15 - —
G pigment, bbls lb. 1.91 - —
Yellow, iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., l.c.l. lb. .038 - —
pure, bgs., c.l., works lb. .10½- —
l.c.l., works lb. .10¾- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 5.10 - —
smaller lots lb. 5.12 - —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd. lb. .25 - —
basic, dlvd. lb. .30 - —
Yerba santa leaves, bus lb. .40 - —
Yohimbine hydrochloride, bots, tin. oz. 4.75 - 5.25

Z

Zein, bgs., 30,000-lb. lots, works lb. .38 - —
1,000 to 30,000-lb lots, works lb. .40 - —
smaller lots, works lb. .43 - —
Zinc acetate, tech., bbls., dms., works lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. E lb. .192 - —
l.c.l., dlvd E lb. .202 —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd., dms lb. .26 - —
solution 50% dms., c.l., works, 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —
tech., fused, dms., c.l., works, 100 lbs. 10.10 - —
l.c.l., works, dms 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
l.c.l., works 100 lbs. 11.00 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works lb. .543 - —

Chlorophyll...
for pharmaceutical and industrial use
NATIONAL CHLOROPHYLL & CHEMICAL COMPANY
LAMAR, COLORADO
Sales office—350 East 35th Street, New York 16, N.Y.
Phone: MUrray Hill 3-1288

FAIRMOUNT CHEMICAL CO., INC.
600 FERRY ST., NEWARK 5, N.J.
Thiosemicarbazide
Semicarbazide Hydrochloride

Here are just some of the advantages Bagpak Multiwall Bags give you and your customers.

• Lower packaging costs • Reduced freight costs • Better stacking of filled bags • Both filled and empty bags require less storage space • Shipping and storage on Bagpak Disposable Pallets cut unloading costs • Maximum protection against sifting, contamination, infestation, dampness • Full measure always emptied • Minimum dust hazard • Advertising message can be printed on face of bags

Bagpak production and quality are backed by the tremendous countrywide facilities and resources of the International Paper Company. For complete information and suggestions as to how you can package and ship your product more profitably, write: Dept. O-20 Bagpak Division, 220 E. 42 Street, New York 17

International Paper COMPANY
BAGPAK DIVISION
BRANCH OFFICES: Atlanta · Baltimore · Baxter Springs, Kansas · Boston · Chicago · Cleveland · Dallas · Denver · Detroit · Kansas City, Kansas · Los Angeles · Louisville · Minneapolis · New Orleans · Philadelphia · Pittsburgh · St. Louis · San Francisco · IN CANADA: The Continental Paper Products, Ltd., Montreal, Ottawa, Toronto

ORIGINAL PRODUCERS OF MAGNESIUM SALTS FROM SEA WATER

Magnesium salts from the sea

MAGNESIUM
CARBONATES
HYDROXIDES
OXIDES

MARINE MAGNESIUM
PRODUCTS DIVISION
OF MERCK & CO., INC.

Main Office, Plant and Laboratories
SOUTH SAN FRANCISCO, CALIFORNIA
Distributors:

WHITTAKER, CLARK & DANIELS, INC.
260 West Broadway, New York
CHICAGO: Harry Holland & Son, Inc.
PHILADELPHIA: R. Peltz Co.
TORONTO: Richardson Agencies, Ltd.

PALMER SUPPLIES CO.
Cincinnati, Cleveland
G. S. ROBINS & CO.
126 Chouteau Avenue, St. Louis
THE C. P. HALL CO.
Akron, Chicago, Los Angeles, Newark

Write for Brochure

Zinc dust, pigment, bbls., c.l., works	lb.	.14½ - —
l.c.l., works	lb.	.15½ - —
Fluoride, bbls., works	lb.	.49 - .50
Hydrosulfite, dms., c.l., frt. alld.	lb.	.21½ - —
l.c.l., frt. alld	lb.	.22 - .37½
Metal, prime western slabs, E. St. Louis	lb.	.11 - —
Naphthenate, liquid, 8% Zn., dms., frt. alld.	lb.	.24½ - —
10% Zn. dms., frt alld	lb.	.30 - —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd.	lb.	.13½ - —
l.c.l., dlvd	lb.	.14½ - —
leaded 35%, bgs., c.l., dlvd.	lb.	.14 - —
l.c.l., dlvd	lb.	.15 - —
50%, bgs., c.l., dlvd	lb.	.14½ - —
l.c.l., d vd	lb.	.15½ - —
French process, com'l green seal, bgs., c.l., dlvd.	lb.	.15¼ - —
l.c.l., dlvd	lb.	.16¼ - —
red seal, bgs., c.l., dlvd	lb.	.14¾ - —
l.c.l., dlvd	lb.	.15¾ - —
white seal, bgs., c.l., dlvd.	lb.	.15¾ - —
USP, ctns., c.l., dlvd	lb.	.16¾ - —
l.c.l., dlvd	lb.	.17¾ - —

Zinc oxide Pac. coast prices 1c. higher.

Phenosulfonate, NF, gran., dms.	lb.	.39 - —
powd., dms	lb.	.42 - .49
Resinate, precip., dms., frt. alld.	lb.	.26¾ - —
Silicofluoride, bbls., works	lb.	.12 - .13
Stearate, tech., USP, ctns., c.l.	lb.	.37 - —
l.c.l.	lb.	.38 - .42
Sulfate cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	8.05 - —
l.c.l., same basis	100 lbs.	8.60 - —
	100 lbs.	5.60 - —
c.l., works	100 lbs.	5.60 - —
flake, 25½% Zn., bgs., works		
36% Zn., bgs., c.l., frt. alld.	100 lbs.	7.90 - 8.05
l.c.l., same basis	100 lbs.	8.65 - 8.80
powdered, monohydrate, bgs., c.l., dlvd. E.	100 lbs.	7.90 - —
l.c.l., dlvd. E	100 lbs.	8.65 - —

Zinc sulphate in bbls. 40c higher.

USP, gran dms	lb.	.26 - —
Sulfide, pure, bgs., c.l., dlvd.	lb.	.2530 - —
Undecylenate, dms.	lb.	2.25 - 2.50
Yellow (see Yellow, zinc).		
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	9.65 - —
bbls., c.l., works	100 lbs.	10.25 - —
l.c.l., bbls., works	100 lbs.	10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l.	lb.	.25½ - —
l.c.l.	lb.	.26 - .41½
normal, dms. l.c.l., works	lb.	.52 - —
Zircon (G), granular, bgs., c.l., works	lb.	.03¼ - —
5 tons to c.l., works	lb.	.03⅜ - —
1 ton to 9,999-lb. lots, works,	lb.	.04 - —
smaller lots, works	lb.	.06½ - —
milled, bgs., c.l., works	lb.	.04½ - —
5 tons to c.l., works	lb.	.04⅝ - —
1 ton to 9,999-lb. lots, works,	lb.	.04⅝ - —
500 to 1,999-lb. lots, works,	lb.	.07½ - —

Zircon (G) in barrels, 1c. higher.

Zirconium acetate, 13% soln. ZrO_2, c.l., 30,000 lbs. minimum, works	lb.	.23 - —
Hydride cns., works	lb.	7.25 - 11.50
Nitrate, dms., ex whse	lb.	4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works	lb.	1.50 - —
lump, electric-fused, bgs., c.l., works	lb.	.44 - —
5-ton lots, works	lb.	.44½ - —
1 ton to 9,999-lb. lots, lbs., works	lbs.	.45 - —
CP, white, grd., bbls., or bgs., works	lb.	1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works	lb.	.45½ - —
smaller lots, works.	lb.	.48 - —
milled, electric-fused, bgs., c.l., works	lb.	.59 - —
5-ton lots, works	lb.	.59½ - —
1 ton to 9,999-lb. lots, works	lb.	.60 - —
500 to 1,999-lb. lots, works	lb.	.60½ - —
smaller lots, works.	lb.	.63 - —
Oxychloride, cryst., ctns., 5-ton lots, works	lb.	.35½ - —

Glycerine Research Award Nominations Being Sought

The Glycerine Producers' Association has announced that 1954 Glycerine Research Award nominations for outstanding research involving glycerine are now being sought.

This group of awards is granted annually by the association to recognize and encourage research leading to new and improved applications of glycerine or glycerine derivatives to products or processes. First award is an honor plaque and $1,000; second award, honor certificate and $300, and third award, honor certificate and $200. Official entry blanks may be obtained by writing to:—Awards Committee, Glycerine Producers' Association, 295 Madison avenue, New York 17, N. Y.

MONSANTO

BENZYL CHLORIDE

Available in nickel drums; tank truck; stabilized material in steel drums

Call any Monsanto office:
St. Louis, Atlanta, Boston, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle, Twin Cities, Wilmington, Montreal.

We offer as manufacturer's exclusive distributors:

GUANIDINE CARBONATE

TERRA CHEMICALS, INC.
500 Fifth Ave., N. Y. 36, N. Y. • Tel.: CH 4-4934

TERRA PACIFIC CHEMICALS, INC.
233 Sansome St., San Francisco, Cal. • Tel.: YU 2-6629

PROCAINE HYDROCHLORIDE USP XIV

METALSALTS* CORPORATION
Manufacturing Chemists
200 WAGARAW ROAD, HAWTHORNE, N. J.
HAwthorne 7-6000 New York: PEnnsylvania 6-2626
*EXCLUSIVE SALES AGENTS FOR DAR-SYN LABORATORIES, Incorporated and HAWTHORNE LABORATORIES, Incorporated.

LANOLIN
U. S. P. TECHNICAL
NEUTRAL WOOL GREASE
THE LANAETEX PRODUCTS, INCORPORATED
P. O. Box 52 Station A, Elizabeth 1, N. J. • Phone: ELizabeth 2-7568

FILTER IT RIGHT... with Dicalite®

...and here's valuable data on filtration

DICALITE BULLETIN B-12 gives a wealth of authoritative data on effective methods of filtration, applicable to the processing of essential oils, penicillin and other antibiotics, and other pharmaceuticals. Write, today, for your free copy, to

DICALITE DIVISION
GREAT LAKES CARBON CORPORATION, Dept. POD, 612 SO. FLOWER STREET, LOS ANGELES 17, CALIF.

Straygold & Associates Offers Consulting Service

J. B. Straygold, president and treasurer of Van Pell Chemical & Supply Corporation, New York, has announced the formation of J. B. Straygold & Associates, a firm designed to provide consultation service dealing with production, equipment, and packaging in the cosmetic, drug and allied industries. The firm is also equipped to service filling, labeling, and packaging machines. Mr. Straygold, who heads the new company, will remain with Van Pell in his present capacity.

Glass Container Shipments: April

Total shipments of narrow-neck glass containers in gross during April were 5,702,000, compared with 7,438,000 in March, according to the Bureau of Census. In this category, the amount used for medicinal and health supplies was 885,000 in April, compared with 1,611,000 in March; chemical, 706,000 in April, compared with 905,000 in March, and toiletries, 491,000 in April, compared with 684,000 in March.

Total shipments of wide-mouth glass containers in gross during April were 3,332,000, compared with 4,485,000 in March. In this category, the amount used for medicinal and health supplies was 289,000 in April, compared with 504,000 in March; chemicals, 187,000 in April, compared with 191,000 in March, and toiletries, 144,000 in April, compared with 214,000 in March.

Agriculture Department To Continue Offerings

The Department of Agriculture announced last week that it would continue its offerings for sale during June of stocks of nonfat dry milk solids, crude and refined cottonseed oil, raw linseed oil, peanuts, and flaxseed, with discounts prevailing as before for sales of these products for export.

The only addition to the list from that of May was the inclusion of cottonseed meal and cake for domestic sale. Information covering price, quantities, and locations may be secured from the New Orleans office of the Commodity Credit Corporation office. No changes in prices were made for any of the other products. Olive oil was not included on the June list but is offered on a competitive bid basis from time to time by the Portland, Ore., Commodity Credit Corporation office.

Lilly Appoints John Rench To Personnel Relations Post

John J. Rench has been appointed assistant director of the personnel relations division of Eli Lilly & Co., Indianapolis, Ind. Mr. Rench will co-ordinate the work of the administrative industrial engineering departments, the employment department, and the maintenance and production incentives departments. He joined Lilly in 1948. Employed as a methods and standards analyst, he later held the posts of manager of the incentives departments and manager of administration at the Tippecanoe Laboratories, near Lafayette, Ind.

Vanilla Bean Producer, Exporter Visits U.S. from Comores Islands

M. Jacques Grimaldi of Moroni, Grandes Comores, Comores Islands, one of the leading producers and exporters of vanilla beans and ylang ylang oil, stated on a recent visit to the United States that the present high prices for vanilla beans would be maintained for another year or two. Mr. Grimaldi pointed out that the vanilla bean crop in the Comores Islands for 1954 will not exceed about 70 tons, whereas the 1953 crop had reached about 90 tons.

Trade Briefs

Peebles Products, Lt., Cornwall, Ont., Canadian Division of Western Condensing Company, has named Herbert R. Inskip vice-president and general manager.

Smith, Kline & French Laboratories, Philadelphia, has completed arrangements for a cooperative research program with Dr. Percey L. Julian and his research group at the Julian Laboratories, Inc., Chicago.

NOW OVER 5100 BIOS CHEMICALS

- COPPER SELENITE
- COPPER SILICOFLUORIDE
- COPPER THIOCHOLINE
- COPPER UNDECYLENATE
- COPROPORPHYRIN
- CORIAMYRTIN
- CORONENE
- CORYDALINE
- o-CRESOL INDOPHENOL
- m-CRESOL INDOPHENOL
- CRESYL o-SILICATE
- CUPROIN
- CYANOACETYLGUANIDINE
- CYCLOOCTATETRAENE
- CYSTINLYLDIGLYCINE
- CYTASE
- DECALOL
- DEHYDRACETIC ACID
- DEHYDROISOASCORBIC ACID
- DEUTEROPORPHYRIN

Ask for our new complete catalogue.

BIOS Laboratories, Inc.
17 West 60th St. New York 23, N. Y.
Plaza 7-8171

Since 1909 Your Guarantee — Quality Service
TIC
Tragacanth IMPORTING CORP.
Trade Mark Registered
GUM KARAYA
160 WATER STREET, NEW YORK 38, N. Y.
BOwling Green 9-1158-59

PARA AMINO BENZOIC ACID USP
SODIUM PARA AMINO BENZOATE
PUROCAINE, INC. *Manufacturing Chemists*
Hockessin, Del.

SAINT GOBAIN-LEVILITE
MAGNESIUM SILICATE SUPERFINE 1/300 MICRON
USES: DENTAL POWDERS • COSMETICS • PHARMACEUTICALS • NONTOXIC
MONDIAL TRADING CORPORATION
500 FIFTH AVENUE, NEW YORK CITY TEL. OX 5-0185

JACQUES WOLF & CO. Chemical Specialties

GELLOID
(Pure calcium Carrageheen sulfate)
GUMS
ARABIC — TRAGACANTH — KARAYA
(Whole, granular or powdered)
VISCO GUM E
(Specially prepared for wave-set solutions)
Ask for "THE STORY OF WATER SOLUBLE GUMS"
HYDROSULFITE of SODA
(Pharmaceutical grade)
SULPHONATED OILS
(Vegetable and mineral bases)
JACQUES WOLF & CO. Chemicals PASSAIC, N. J.

P&B
BERYLLIUM • LANTHANUM • CERIUM
THORIUM and ZIRCONIUM SALTS • AMMONIUM BIFLUORIDE
TITANIUM POTASSIUM OXALATE
ABSORPTION BASE • CHLOROPHYLL • LANOLINE, U.S.P. • SAPONINE
BIOLOGICAL STAINS • ph BUFFER SOLUTIONS
"FIXANAL" CONCENTRATED PREPARATIONS FOR KORMAL SOLUTIONS
MOLDOL (Preservative)
SINCE 1900 Pfaltz & Bauer, Inc.
EMPIRE STATE BUILDING, NEW YORK

IODIDES
POTASSIUM IODIDE, U.S.P.
IODINE RESUBLIMED, U.S.P.
MEFFORD CHEMICAL CO. (MECCO) LOS ANGELES
MEFFORD CHEMICAL CO.
1026 Santa Fe Avenue Los Angeles 21, California

KELCOSOL
a versatile algin colloid
KELCO REFINED ALGIN PRODUCTS

Because of its wide range of adaptability, Kelcosol is constantly finding new fields of application. Some typical uses of this versatile algin colloid are shown below. They may suggest to you a means of improving your own particular formulas through the use of Kelcosol.

COMPOSITION
A highly refined sodium salt of alginic acid.

PROPERTIES
Color and Form: Cream colored, fibrous powder.
Solubility: Easily soluble in hot or cold water to form a thick, smooth solution.
Characteristics of Solution: Practically colorless. pH is neutral. Not coagulated by heat or gelled by cooling. Viscosity of 1% solution, approximately 2,000 centipoises, and 2%, 22,000 centipoises.

USES
Gel Forming: Baker's Gels. Dessert and Fruit Gels. Soft and Tough Industrial Gels. Pharmaceutical Gels.
Thickening: Rubber Latex. Liquid Resins. Syrups.
Emulsifying: Salad Dressings. Flavor Emulsions. Cosmetics. Pharmaceutical and Industrial Emulsions.
Binding Agent: Pharmaceutical Tablets. Welding Rod Coatings. Ceramics.
Bodying and Suspending: Pharmaceutical, cosmetic and industrial uses.
For additional information, mail the coupon below for Kelco's descriptive bulletin on Kelcosol.

Precisely engineered for specific uses, Kelco algin products are manufactured to absolutely uniform standards by the Kelco control procedure, which includes 46 distinct tests.

KELCOSOL® ... (an algin product)
of KELCO company
31 NASSAU STREET NEW YORK 5, N. Y.
20 N. WACKER DRIVE CHICAGO 6, ILL.
530 WEST SIXTH STREET LOS ANGELES 14, CALIF.
CABLE ADDRESS: KELCOALGIN, NEW YORK

KELCO COMPANY DEPT. Q — 31 NASSAU STREET NEW YORK 5, N. Y.
Please send me bulletin describing Kelcosol and information regarding its use in.....
NAME..... POSITION.....
COMPANY.....
ADDRESS.....
CITY..... ZONE..... STATE.....

INTERNATIONAL HORMONES

MANUFACTURING CHEMISTS
SINCE 1940

PRESENTS

3 Specifics For Your Prescription Line

- Chorionic Gonadotropic Hormone—pyrogen free, Bulk and Lyophilized vials
- Heparin, Sodium, USP
- Conjugated Estrogens (water soluble) granules and powder

Bibliographies and Technical Information Available upon request.

INTERNATIONAL HORMONES, INC.
45 BERGEN STREET, BROOKLYN 1, NEW YORK • TRiangle 5-9858
608 WILFORD BUILDING, 33rd & ARCH STREETS, PHILADELPHIA, PA.
1207 SOUTH VERMONT AVENUE, LOS ANGELES, CALIF.
ESTABLISHED 1940

THE MATHESON CO. carries the world's most diversified line of COMPRESSED GASES and GAS REGULATORS

FROM A SINGLE SOURCE!
ALL THE CHEMICALS NORMALLY USED IN THE LABORATORY

The Complete List of REAGENT, INORGANIC AND ORGANIC CHEMICALS, STAINS, SOLUTIONS

REAGENT CHEMICALS...

Send for our new 8½"x11" catalog

C&B MATHESON COLEMAN & BELL
Manufacturing Chemists
DIVISION OF THE MATHESON CO., INC. EAST RUTHERFORD, NEW JERSEY • NORWOOD (CINCINNATI), OHIO

geared for industry

in price and in grade

Para-aminosalicylic acid, long a recognized pharmaceutical, has unique chemical properties that suit it for widespread industrial use. It may also have application as a specialty reducing agent as in soldering or brazing fluxes.

In our new PAS (Technical) we offer the same dependability that characterizes the pharmaceutical preparation. Only the grade and the price are different.

Call the attention of your Research Director to PAS (Technical). Why not write today for samples and information?

make Sumner *your source*

SUMNER CHEMICAL COMPANY INC.
Zeeland, Michigan
General Sales Offices: 6 E. 45th St., New York 17, N. Y.

Imports at United States Ports

New York

AGAR—13 chts, Nozaki Associates Inc, Shimizu
15 bls, Meer Corp, Yokohama
4 bls, Interoceanic Commodities Corp, Yokohama
ALCOHOL, LAURYL—4 dms, Croda Inc, Rotterdam
ALOE—19 crts, Southampton
p-AMINOBENZOIC ACID—9 kgs, Harrison & Crosfield, Gothenburg
AMMONIUM CARBONATE—23 cs, Glasgow
ANTIMONY—120 ctns, Watson Geach, Liverpool
350 cs, Antwerp
ARGOLS—1,673 bgs, Tartaric Raw Materials, Oran
ARSENIC, METALLIC—69 dms, Overseas Metal & Ore Corp, Gothenburg
BEESWAX—285 bgs, Corn Exchange Bank, Rio de Janeiro
166 bgs, Rio de Janeiro
19 bgs, Lenape Trading Co, Jacmel
100 bgs, Reaud Geck Corp, Ciudad Trujillo
28 bgs, Port Au Prince
25 bgs, Irving Trust Co, Ciudad Trujillo
26 bgs, Havana
BERGAMOT OIL—6 hf cs, Antoine Chiris, Messina
BLANC FIXE—800 bgs, C J Osborn Co, Rotterdam
BONE—250 bgs, Intercambio Commercial Inc, Rio de Janeiro
CALCIUM CARBONATE—300 bgs, H J Baker & Bro, Liverpool
NITRATE—400 bgs, Otagon Process Inc, Oslo
CARNAUBA WAX—438 bgs, W R Grace & Co, Maranhao
131 bgs, Wm Diehl & Co, Rio de Janeiro
125 bgs, A Judson Murray, Rio de Janeiro
56 bgs, M Arqueso & Co, Fortaleza
44 bgs, Corn Exchange Bank, Rio de Janeiro
625 bgs, Guaranty Trust Co, Parnahiba
250 bgs, Bank of London & S A, Parnahiba
150 bgs, Colonial Trust Co, Parnahiba
111 bgs, Fortaleza
CASSIA—120 pkgs, Rotterdam
CASTOR BEANS—1,300 bgs, Grace National Bank, Bahia
700 bgs, Baker Castor Oil Co, Manta
777 bgs, Spencer Kellogg, Port Au Prince
400 bgs, Spencer Kellogg, Jacmel
OIL—201 tons, Baker Castor Oil Co, Rotterdam
200 tons, Brazilian Industrial Oils, Fortaleza
1-CHLORO-5-AMINOANTHRAQUINONE — 4 dms, Heemsoth Kerner, Liverpool
CHLOROTHION—4 dms, Chemagro Corp, Rotterdam
CITRONELLA OIL—36 dms, George Uhe Co, Rotterdam
CLOVE—40 lbs, Kellys America Ltd, Zanzibar
COCONUT OIL—1,004 tons, Lever Bros, Manila
300 tons, Pacific Vegetable Oil Corp, Manila
750 tons, Ludo & Luym Corp, Cebu
453 tons, Manila
CODLIVER OIL—100 dms, Peder Devold Oil Co, Reykjavik
100 dms, Dyson Shipping Co, Reykjavik
100 dms, Arista Oil Products Co, Reykjavik
COPAIBA BALSAM—5 dms, S B Penick & Co, Manaus
COTTON LINTERS—258 bgs, Cowa Trading Corp, Rio de Janeiro
CRESYLIC ACID—650 dms, H A Gogarty, Liverpool
CUBE ROOT—1,057 bls, S B Penick & Co, Iquitos
984 bls, Hecht Levis & Kahn, Iquitos
750 bls, H A Astlett & Co, Iquitos
CUTTLEFISH BONE—52 bxs, Lisbon
DEXTRIN—1,245 bgs, National Starch Products, Rotterdam
444 bgs, Stein Hall & Co, Rotterdam
175 bgs, Bank of Manhattan Co, Rotterdam
DICHLOROANILINE—7 dms, Rotterdam
DYES, ANILINE—73 dms, Hensel Bruckmann & Lorbacher, Hamburg
13 dms, Hensel Bruckmann & Lorbacher, Bremen
7 dms, Hensel Bruckmann & Lorbacher, Rotterdam
19 dms, Ciba Co, Rotterdam
20 dms, Carbic Color & Chemical Co, Rotterdam
5 dms, Geigy Co, Rotterdam
48 dms, Heemsoth Kerner, Liverpool
35 dms, Rotterdam
EARTH COLORS—450 bgs, Rotterdam
EPSOM SALT—2,500 bgs, Interstate Chemical Corp, Bremen
ESPARTO WAX—32 bgs, Wm Diehl & Co, Glasgow
FISHLIVER OIL—20 dms, Arista Oil Products Co, Keelung
11 dms, Vitamins Inc, Yokohama
FUEL OIL—384,000 bbls, Esso Export Corp, Aruba
162,000 bbls, Esso Standard Oil Co, Aruba
110,962 bbls, Esso Export Corp, Caripito
116,269 bbls, Shell Oil Co, Curacao
GELATIN—46 dms, Hensel Bruckmann & Lorbacher, Rotterdam
132 bgs, Antwerp
GINGER—43 bgs, Mincing Trading Corp, Lagos
191 bgs, Chemical Bank, Freetown
85 bgs, Gill Bros, Freetown
97 bgs, Frome & Co, Freetown
GLUE—64 cs, Henneux Co, Rotterdam
DRY—206 dms, American Rayon Corp, Bremen
HIDE—100 bgs, Bremen
GLYCERINE—250 dms, Plata American Trading, Yokohama
GYPSUM—7,530 tons, National Gypsum Co, Dingwall
3,305 tons, Newark Plaster Co, Walton
5,233 tons, U S Gypsum Co, Hantsport
306 bgs, L A Salomon & Bros, Liverpool
IODINE, CRUDE—80 kgs, North Atlantic Fertilizer & Chemical Co, Yokohama
IPECAC ROOT—2 bgs, F Keller, Cristobal
LACTOSE—600 dms, Nestle Co, Rotterdam
100 bgs, Rotterdam
20 cks, Rotterdam
20 dms, Rotterdam
LAVENDER OIL—1 dm, Alicante
LOCUST BEAN GUM—875 bgs, James L Quesada, Valencia
200 bgs, T M Duche & Sons, Genoa
550 bgs, Hanover Bank, Barcelona
LOGWOOD EXTRACT—100 cks, American Dyewood Co, Kingston
MACE—15 cs, Daarnhourwer & Co, Rotterdam
7 cs, Irving Trust Co, Rotterdam
22 cs, A G Dunn, Rotterdam
15 cs, Karl H Landes & E Balint, Rotterdam
8 cs, Catz American Co, Rotterdam
MAGNESIUM CARBONATE—50 cs, Chas L Huisking & Co, Liverpool
SULFATE—120 bgs, L D Peters & Sons, Liverpool
TRISILICATE—20 cs, R J Saunders & Co, Liverpool
MASTIC GUM—5 cs, C Costalos, Piraeus
MENTHOL—63 cs, Magnus Mabee & Reynard, Santos
MERCURY—250 btls, Hanover Bank, Leghorn
m-CRESOL—91 dms, Givaudan Corp, Rotterdam
MOLASSES—580 tons, W R Grace & Co, Salaverry
MULLEIN LEAVES—42 bgs, Irving Trust Co, Algiers
MUSTARD SEED—300 bgs, C Gulden, Naples
25 bgs, C Gulden, Valparaiso
MYROBALANS EXTRACT—400 bgs, Tanimex Corp, Liverpool
NAPHTHALENE—1,583 bgs, Antwerp
2-NAPHTHOL-7-SULPHONIC ACID—5 dms, Verona Dyestuffs, Rotterdam
NICKEL SULFATE—54 cks, Goldwynne Chemical Corp, Genoa
NUTMEG—24 bgs, Karl H Landes & E Balint, Singapore
OLIVE OIL—200 dms, Chemical Bank, Seville
98 dms, Hanover Bank, Seville
75 dms, Chase National Bank, Seville
105 dms, Chase National Bank, Malaga
26 dms, Merchants Bank, Malaga
52 dms, Manufacturers Trust Co, Malaga
200 dms, Bank of America, Malaga
23 dms, Manufacturers Trust Co, Tarragona
25 dms, Irving Trust Co, Tarragona
202 dms, Credit Suisse, Malaga
260 dms, Brown Bros, Malaga
100 dms, National City Bank, Malaga
129 dms, National City Bank, Malaga
ORANGE OIL—40 cs, George Lueders & Co, Kingston
OURICURY WAX—125 bgs, Marklin Chemical Corp, Rio de Janeiro
PALM OIL—338 tons, Lagos
PAPAIN—2 crts, Wm E Martin, Dar es Salaam
1 ctn, Wm E Martin, Dar es Salaam
40 cs, National City Bank, Dar es Salaam
26 cs, De Hope Goldschmidt Corp, Mombasa
35 cs, Wessel Duval & Co, Mombasa
27 cs, Chas L Huisking & Co, Tanga
PAPRIKA—1,050 bgs, J Weinstein, Alicante
300 bgs, Gallagher & Ascher, Alicante
200 bgs, Van Loan & Co, Alicante
320 bgs, Alicante
PATCHOULI LEAVES—90 bgs, A Champon & Co
PEATMOSS—2,200 bls, E J Lang, Hamburg
2,000 bls, Gellco Inc, Bremen
3,299 bls, New Amsterdam Import Co, Bremen
2,130 bls, Atkins & Durbrow, Bremen
380 bls, Irving Trust Co, Bremen
2,000 bls, Lewis Intern Co, Bremen
1,000 bls, C FaFard, Bremen
1,500 bls, N J Farmers Supply, Bremen
2,500 bls, E J Lang, Bremen
1,500 bls, National Distributors, Bremen
1,000 bls, Bremen
830 bls, Lion Trading Co, Bremen
1,500 bls, Marine Midland Trust Co, Bremen
1,000 bls, J E Bernard, Hamburg
950 bls, Premier Peatmoss Corp, Hamburg
500 bls, E Dunwoody, Bremen
1,000 bls, J E Bernard, Bremen
6,495 bls, Premier Peatmoss Corp, Bremen
100 bls, Westville Industries, Bremen
800 bls, C Gastmeyer, Rotterdam
PECTIN—32 kgs, Jafbro Corp, Copenhagen
PEPPER, BLACK—28 bgs, C Czarinkow, Singapore
111 bgs, Louis Furth, Vera Cruz
RED—204 bgs, M J Golombeck, Iskenderun
PETITGRAIN OIL—11 dms, Ungerer & Co, Buenos Aires
14 dms, Lo Curto & Funk, Buenos Aires
PETROLEUM, CRUDE—174,812 bbls, Socony Vacuum Oil Co, Puerto La Cruz
205,152 bbls, Phillips Petroleum Co, Puerto La Cruz
175,081 bbls, California Oil Co, Ras Tanura
200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
PHTHALIC ANHYDRIDE—209 bgs, Socony Vacuum Oil Co, Naples
PIMENTO LEAF OIL — 2 dms, Fritzsche Bros, Kingston
2 dms, Magnus, Mabee & Reynard, Kingston
POLLACKLIVER OIL—55 dms, Arista Oil Products Co, Yokohama
70 dms, Consumers Import Co, Yokohama
50 dms, Consumers Import Co, Otaru
115 dms, Wilbur Ellis Co, Otaru
65 dms, Wilbur Ellis Co, Yokohama
POTATO STARCH—1,065 bgs, National Starch Products, Rotterdam
PROCAINE HYDROCHLORIDE—5 kgs, Harrison & Crosfield, Gothenburg
QUASSIA CHIPS—107 bgs, Prentiss Drug & Chemical Co, Kingston
RED, IRON OXIDE—1,305 bgs, Landers Segal Color Co, Malaga
441 bgs, C K Williams & Co, Malaga
25 bbls, Whittaker, Clark & Daniels, Malaga
660 bgs, Naftone Inc, Bremen
ROSEWOOD OIL—10 ums, Orbis Products Corp, Iquitos
1 dm, Lo Curto & Funk, Iquitos
RYANIA WOOD—8,234 bdls, S B Penick & Co, Port of Spain
SASSAFRAS OIL—10 dms, Wm H Muller, Amsterdam
SEEDLAC—500 bgs, Ludwig Mueller, Bangkok
250 bgs, Unity Import Export Co, Bangkok
500 bgs, Bangkok
SERPENTINA ROOT—Correction—300 bgs, Meer Corp, May 24 issue was an error
SESAME OIL—100 dms, Welch Holme & Clark Co, Copenhagen
SEED, ROLLED—1,000 bgs, Louis Furth, Corinto
100 bgs, Sokol & Co, Corinto
250 bgs, M J Golombeck, Corinto
100 bgs, Becker Mayer Seed Co, Corinto
400 bgs, Archibald & Kendall, Corinto
150 bgs, Marine Midland Trust Co, Corinto
300 bgs, Levy & Levis Co, Corinto
65 bgs, Archibald & Kendall, Beirut
SHARKLIVER OIL—45 dms, Collett-Week-Nibecker, Keelung
32 dms, Collett-Week-Nibecker, Valparaiso
SHELLAC—41 bgs, Dings & Schuster, Bremen
35 bgs, Irving Trust Co, Southampton
SODIUM CARBONATE MONOHYDRATE—20 bgs, Yardley of London, Liverpool
CYANIDE—500 dms, American Cyanamid Co, Liverpool
125 dms, Chemical Manufacturing Co, Liverpool
PERBORATE TETRAHYDRATE — 1,000 dms, Chemical Manufacturing Co, Liverpool
STARCH—1,000 bgs, Alltransport Inc, Rotterdam
TALC—6,600 bgs, Charles Mathieu, Genoa
TANNIC ACID—16 dms, American Dyewood Co, Glasgow
TAPIOCA FLOUR—3,000 bgs, Stein, Hall & Co, Itajai
3,000 bgs, Morningstar Nicol, Itajai
3,000 bgs, Internatio Rotterdam, Bangkok
1,750 bgs, Borneo Sumatra Trading Co, Bangkok
TARTARIC ACID—60 bgs, Nylos Trading Co, Genoa
THYME LEAVES—125 bls, F L Kraemer, Marseilles
TRICHLOROETHYLENE—50 dms, Hanover Bank, Leghorn
TURMERIC—260 bgs, M J Golombeck, Jacmel
140 bgs, Archibald & Kendall, Jacmel
76 bgs, L E Ransom, Jacmel
UREA—600 bgs, Nylos Trading Co, Genoa
VANADIUM CONCENTRATES—1,200 bgs, Vanadium Corp of America, Callao
VANILLA BEANS—12 cs, Packing Products Co, Marseilles
WATTLE BARK—5,576 bls, Hammond & Carpenter, Durban
EXTRACT—2,977 bgs, Hammond & Carpenter, Durban
WHITING—1,200 bgs, Pluess Staufer, Antwerp
WOOL GREASE—95 dms, Hummel Chemical Co, Nagoya
5 dms, Eelsingh & Lugtiheid, Rotterdam
20 cs, Bremen
ZIRCONIUM CARBONATE—38 bbls, Melmark Inc, Liverpool

Baltimore

PEATMOSS—1,000 bls, Lion Trading Co, Bremen
1,000 bls, Marine Midland Trust Co, Bremen
500 bls, E J Lang, Bremen
500 bls, Bruco Peatmoss Corp, Bremen

Los Angeles

AGAR—15 bls, Pan Asiatic Trading Co, Nagoya
40 cs, Moorhead & Co, Yokohama
BONEMEAL—2,270 bgs, Atkins Kroll & Co, Alexandria
1,100 bgs, Trans-Atlantic Animal By-Products Co, Alexandria

CASSIA—197 bgs, C M V Silleboldt, Rotterdam
COPRA—550 long tons, Procter & Gamble Co, Zamboanga
750 long tons, American Trust Co, Cebu
1,900 long tons, American Trust Co, Legaspi
300 long tons, Vegetable Oil Products Co, Cebu
500 long tons, American Trust Co, Tabaco
CAKE—7,480 bgs, Pacific Vegetable Oil Corp, Manila
4,480 bgs, Balfour Guthrie & Co, Manila
12,000 bgs, Snow & Co, Manila
EARTH COLORS—2,810 bgs, Frank D Davis Co, Rotterdam
GINGER—56 bgs, McClintok Stearn & Co, Kingston
OLIVE OIL—320 cs, The F & M Importing Co, Leghorn
75 cs, Marseille
PEAT MOSS—500 bls, W R Grace & Co, Rotterdam
PETROLEUM, CRUDE—23,323 tons, The Texas Co, Sungai Pakning
POLLACKLIVER OIL—225 dms, Frank P Dow, Yokohama
150 dms, Universal Foreign Service, Yokohama
50 dms, Frank P Dow Co, Otaru
SESAME OIL—75 cs, Kwong On Lung Co, Yokohama
UREA—6,666 bgs, Bunge Corp, Otaru

Norfolk

PEATMOSS—500 bls, Premier Peatmoss Corp, Bremen

Philadelphia

ANTIMONY—15 dms, Franklin Import Co, Hull
ASBESTOS FIBER—1,300 bgs, Keasby & Mattison, Beira
400 bgs, Raybestos Co, Beira
553 bgs, Chas Kurz Co, Durban
BEETPULP—4,008 bgs, N American Continental Co, Rotterdam
BONEMEAL—5,000 bgs, Kind & Knox Co, Calcutta
LEATHERMEAL—500 bgs, Bankers Trust Co, Antwerp
MOLASSES—1,965,390 gals, Publicker Industries, Nuevitas
PALMKERNEL OIL—200 tons, Fels Inc, Hull
PEATMOSS—600 bls, Halfmoon Manufacturing & Trading Co, Rotterdam
150 bls, Bank of Manhattan Co, Bremen
PETROLEUM CRUDE—117,140 bbls, Gulf Oil Corp, Puerto La Cruz
788,498 bbls, Gulf Oil Corp, Mena Al Ahmadi
245,987 bbls, Socony Vacuum Oil Co, Covenas
208,423 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
119,990 bbls, Atlantic Refining Co, Pamatacual
138,879 bbls, Atlantic Refining Co, Mena Al Ahmadi
116,632 bbls, Atlantic Refining Co, Sidon
412,433 bbls, The Texas Co, Sidon
119,304 bbls, The Texas Co, Covenas
145,680 bbls, The Texas Co, Pamatacual
QUEBRACHO EXTRACT—507 bgs, First National Boston, Buenos Aires
UREA—7,000 bgs, Middlesbrough
WHITING—1,600 bgs, Pluess Staufer, Antwerp

San Francisco

AMMONIUM BICARBONATE—107 dms, C M C Chemicals, London
BONEMEAL—2,205 bgs, Rotterdam
CALCIUM p-AMINOSALICYLATE—10 kgs, States Mercantile Co, Rotterdam
CASSIA—50 bls, Bank of California, Djakarta
100 bls, J Berlage, Rotterdam
81 pkgs, Rotterdam
CINNAMON QUILLS—25 bls, Colombo
CLOVE—50 bgs, General S S Corp, Brighton
COPRA—500 tons, American Trust Co, Cebu
500 tons, El Dorado Oil Works, Iloilo
200 tons, Cargill Inc, Iloilo
159 tons, El Dorado Oil Works, Catanawan
CAKE—2,600 bgs, Pacific Vegetable Oil Corp, Cebu
CREOSOTE OIL—403 tons, Bernuth Lembke & Co, Middlesbrough
DEXTRIN—100 bgs, H B Fuller Co, Rotterdam
EPSOM SALT—500 bgs, Matoon & Co, Bremen
GRAPHITE—120 bgs, Pacific Graphite Co, Colombo
PEATMOSS—250 bls, Trans Sphere Trading Corp, Bremen
500 bls, H M Newhall & Co, Bremen
250 bls, Frazar & Hansen, Bremen
1,000 bls, Nurserymens Exchange, Rotterdam
1,300 bls, Lastreto Phillips, Rotterdam
250 bls, Nurserymens Exchange, Bremen
PEPPER, BLACK—42 bgs, Atkins Kroll & Co, Singapore
80 bgs, Mincing Trading Corp, Bombay
SESAME SEED—600 bgs, H C Ireland, Corinto
100 bgs, Grace & Co, Corinto
SODIUM BICARBONATE—1,698 bgs, C M C Chemicals, Liverpool
p-AMINOSALICYLATE—10 dms, Pacific States Lab, Antwerp
SUNFLOWERSEED MEAL — 6,331 bgs, Buenos Aires
TRIPLE SUPERPHOSPHATE—1,200 bgs, Atkins Kroll & Co, Rotterdam
TURMERIC—80 bgs, D Hecht & Co, Cochin
UREA—1,102 bgs, Atkins Kroll & Co, Antwerp
235 tons, Atkins Kroll & Co, Antwerp
WHITING—3,000 bgs, N H Weitzner, Antwerp

Carbide & Carbon Appoints

—Continued from page 5

came vice-president of that company in 1944.

Mr. Babcock joined the sales department of Carbide & Carbon in New York in 1924. In 1935 he was made manager of chemical sales and in 1944 he was appointed manager of the industrial chemicals division. Mr. Fogle joined the Carbide organization as a research fellow at Mellon Institute of Industrial Research in Pittsburgh, Pa., in 1930. He became Chicago district sales manager in 1940, western division sales manager in 1944, and sales manager of the industrial chemicals division in 1953. For about seven months, beginning in 1952, he served as director of the rubber, chemicals, drugs and fuels division, of the Office of Price Stabilization in Washington, D. C. Mr. Kinsey joined Carbide as a cadet engineer at Clendenin, W. Va. Shortly afterward he was promoted to shift foreman at Carbide's South Charleston, W. Va., plant and progressed there to assistant superintendent. In 1934 he was made superintendent of the new chemicals plant at Whiting, Ind. In 1944 he was appointed plant manager at Oak Ridge, Tenn., where Carbide was bringing the atomic energy plant into operation. In 1946 Mr. Kinsey moved to New York to become works manager of Carbide.

Canadian Petrofina's Two New Units Being Erected

Lummus Company Canada, Ltd., Canada, has begun construction of two units for the new Canadian Pertofina, Ltd., refinery at Point Aux Trembles, ten miles north east of Montreal. Completion of the units is scheduled for September, 1955. Number one is a Houdriflow catalytic cracking unit (10,000 B/D) with fractionation section and vapor recovery unit. Number two is a 3,000 B/D hydrosulfurization unit (utilizing the Shell process).

Alcohol Shipping Regulations

—Continued from page 3

sealed, locked, and documented during daylight hours, in accordance with the provisions of section 182.323(a) of regulations No. 3, may be transferred from the industrial alcohol plant premises during the hours between sunset and sunrise. Such tankcars should be moved as expeditiously as possible.

Since alcohol produced from ethylene gas, or other petroleum derivatives, may be deposited in an industrial alcohol bonded warehouse and later withdrawn tax-paid, or transferred in bond and later withdrawn tax-paid, the proprietor of the industrial alcohol plant where such alcohol is produced should show "Alcohol—Petroleum Derivative" on form 1440, "Report of Alcohol Gauged." Accordingly, where the origin of alcohol is required to be shown on packages of ethyl alcohol produced from ethylene gas or other petroleum derivative, such origin should be shown as "Alcohol—Petroleum Derivative."

Casein has been approved for use by winemakers in the clarification of standard grape wine, not to exceed two pounds per 1,000 gallons of wine, provided it is used only to an extent or in a manner which will not change the basic composition of the wine or eliminate its characteristic elements in accordance with the provisions of section 178.204 of regulations No. 7.

Sodium caseinate has been approved for use by winemakers in the clarification of wines provided it is used only to an extent or in a manner which will not change the basic composition of the wine or eliminate its characteristic elements in accordance with section 178.204 of regulations No. 7.

An application for the use of malic acid in the clarification of apple wine has been disapproved. Malic acid may be used only for the purpose of correcting natural deficiencies in the fruit or berries or the juice thereof used to make wine, as provided in section 178.138 of regulations No. 7.

Shell Chemical Reorganizes

—Continued from page 5

solved and their district offices will report to the single sales management group in New York, responsible for solvents, industrial chemicals, resins and plastics.

Other appointments include:—K. R. Fitzsimmons, eastern division resins and plastics supervisor, to industrial chemicals manager, and J. J. O'Connell, Newark, N. J., district manager, to solvents manager. A. V. Snider and F. S Swackhamer continue as managers of the export and resins and plastics departments, respectively. These four departments are under the direction of the general sales manager. M. L. Griffin, formerly marketing operations manager, and now manager in the administrative office, will continue to report directly to the vice-president. F. W. Hannsgen, of the head office staff in New York, has been named Newark district manager succeeding Mr. O'Connell.

Toilet Goods Makers

—Continued from page 3

monopolize and has monopolized interstate and foreign trade and commerce by preventing others from importing the lines of trademarked toilet goods produced by the defendant's foreign affiliates. The latter, it is alleged, sell this merchandise abroad at prices substantially lower than those charged in the United States.

The consent judgment filed in the Empro case enjoins it from enforcing any rights or privileges which may accrue to it by virtue of any United States law or regulation concerning the importation of trademarked or tradenamed products for the purpose or with the effect of barring the importataion into the United States of any toilet goods manufactured, sold or distributed by any foreign affiliate of the Empro Corporation, and which the latter markets in the United States.

Trade BPC Mark

Fine Chemicals

PHARMACEUTICAL CHEMICALS

AMINOACETIC ACID
AMINOPHYLLINE
AMPHETAMINE (base and salts)
BENZOCAINE
BENZYL ALCOHOL
CHLORBUTANOL
8-HYDROXYQUINOLIN
OXYQUINOLIN BENZOATE
OXYQUINOLIN SULPHATE
POTASSIUM OXYQUINOLIN SULPHATE
PENTOBARBITAL SODIUM
PHENOBARBITAL
PHENOBARBITAL CALCIUM
PHENOBARBITAL SODIUM
SECOBARBITAL SODIUM
THEOPHYLLINE

AROMATIC and FLAVORING CHEMICALS

BENZYL ALCOHOL
CINNAMIC ACID
DIACETYL
ETHYL PHENYL ACETATE
PHENYL ACETIC ACID

TECHNICAL CHEMICALS

BENZALDEHYDE
BENZOIN
BENZYL ALCOHOL
BENZYL CHLORIDE
BENZYL CYANIDE
CYANOACETAMIDE
DIBENZYL ETHER
DIPHENYLACETIC ACID
ETHYL CYANO ACETATE
GLYCINE ETHYL ESTER HYDROCHLORIDE

SPECIALTIES FOR PENICILLIN MANUFACTURERS

METHYL PHENYL ACETATE
N,N'-DIBENZYL ETHYLENE DIAMINE DIACETATE
PHENYLACETAMIDE
BETA PHENYLETHYLAMINE
POTASSIUM PHENYL ACETATE SOLUTION
PHENYL ACETIC ACID

MALONATES

ALLYL-1-METHYLBUTYL DIETHYL MALONATE
n-BUTYL DIETHYL MALONATE
ETHYL-DIETHYL MALONATE
ETHYL-1-METHYBUTYL-DIETHYL MALONATE
ETHYL-1-METHYLPROPYL-DIETHYL MALONATE
ETHYL-PHENYL-DIETHYL MALONATE
1-METHYLBUTYL-DIETHYL MALONATE
1-METHYLPROPYL-DIETHYL MALONATE
PHENYL DIETHYL MALONATE

NEW INTERMEDIATES

α-ACETYL-α-TOLUNITRILE (α-Phenylacetoacetonitrile)
ALLYL ACETONE (5-Hexen 2-one)
BENZILIC ACID
CHRYSANTHEMUM-MONOCARBOXYLIC ACID ETHYL ESTER
2,5-DIMETHYL HEXADIENE-1,5
2,5-DIMETHYL HEXADIENE-2,4
ETHYL-α-ALLYLACETOACETATE (Ethyl-2-Acetyl-4-Pentenoate)
PHENYL ETHYL ACETIC ACID (α-Phenyl Butyric Acid)
1-PHENYL-2-PROPANONE (Phenyl Acetone)
TRIGLYCOLLAMIC ACID

BENZOL PRODUCTS COMPANY
237 SOUTH STREET, NEWARK 5, N. J.

■ penn-drake®
PETROLATUMS
■ All Grades and Colors
■ Uniform Order-to-Order
PENNSYLVANIA REFINING COMPANY
BUTLER, PENNSYLVANIA
Branches: Cleveland, Ohio and Edgewater, N. J.
Representatives in all Principal Cities
penn drake products

PETRONAUBA EMULSIFIABLE PETROLEUM WAXES

SALES OFFICES
1500 South Western Ave.
CHICAGO, ILLINOIS
121 S. Broad Street
PHILADELPHIA, PA.

FOR POLISH FORMULATIONS

Answering the need for a uniform, reasonably priced emulsifiable petroleum wax, Petronauba waxes were developed by Bareco scientists in cooperation with chemists in the self-polishing wax industries. The Petronauba series provide the polish industry with hard, light colored emulsifiable waxes at great savings over natural waxes. For complete details, basic formulas and samples write . . .

BARECO OIL CO.
BOX 2009 • TULSA, OKLA.

Process Materials

- Petroleum Naphthas and Solvents
- Plasticizers and Extenders for Plastics and Rubber
- Toluene and Xylene, Shell TS-28
- Paraffin and Microcrystalline Waxes

SHELL OIL COMPANY
50 WEST 50TH STREET, NEW YORK 20, NEW YORK
100 BUSH STREET, SAN FRANCISCO 6, CALIFORNIA
SHELL

Petroleum Derivatives

Crude scale paraffin wax prices were advanced ½c. per pound in response to the greatly reduced production of lubricating oils in the Pennsylvania fields. The increase in price resulted also from the current situation of active consumer interest and lack of extensive inventories on the part of manufacturers. No further price increases in this material were expected in the period before September 1. Demand for microcrystalline wax was very good and took most of available supplies, making for a very healthy market.

Among solvents and diluents, some weak areas were in view. Partial aromatics were not moving as well as could be expected. Demand was slow, and manufacturers were faced with more than ample stocks. Consumption of mineral spirits continued to shift gradually upward following a very good demand from paint producers. A good tone was expected to prevail in this market over the coming weeks. Toluol moved pretty well, and was generally available in ample supply, although export demand continued to take a sizeable amount of production. The outlook for xylol appeared somewhat on the weak side in a quiet market that was well supplied with material.

Liquefied petroleum gases were in the position of distress materials according to some observers, who noted that sales have slackened. However, others reported a more encouraging outlook and stated that although a great deal of summer requirements had already been filled, their sales would hold up fairly well in the months ahead. The beginning of underground storage produced a noticeable effect and was expected to continue to take a sizeable amount of the distress material available on the market. Petroleum sulfonate sales continued to move along at a very good pace, although no shortage of material was reported.

Solvents and Diluents

Isopentane — Commercial grade material remained priced at 15½ cents per pound, f.o.b. Texas refinery. Demand for use in aviation gasoline continued to take the greater percentage of output. The makers kept up with demand without undue pressure and shipped material on schedule.

Mineral Spirits — Most manufacturers reported an upward trend in sales and stated that the record for the current quarter, when completed, could be expected to make a very good showing. The upward trend was expected to continue into the summer months. Suppliers were shipping material at unchanged prices and were expected to make no revisions at the present time.

Partial Aromatic Solvents—This market represented one of the weak spots in the petroleum derivatives field, as industrial users, particularly in the field of automotive finishes, failed to show any improvement in their demands. Prices held steady throughout the week, but were considered rather on the weak side by some in the trade. Some improvement was hoped for in the coming weeks, but was not seen to be shaping up in the immediate future.

Toluol—Consumers were able to obtain shipment of material without difficulty as the market continued in an even state. With government requirements continuing low, the greatest pressure was removed. Material was somewhat less freely available in some areas, since at the present time, shipments over long distances were not considered economically advisable. The situation could change fairly quickly for this material, it was stated in the trade, but at the present, civilian users were able to obtain their requirements without difficulty.

VM&P Naphtha—Manufacturers were well ahead of their customers' orders, and were shipping material on schedule. The market was considered to be definitely on the weak side for this material at the present time.

Xylol—Supplies of material were held to be ample for current needs, and the market could, in fact, have filled a good deal more buying pressure from consumers than was met. The market was expected to show little variation over the weeks immediately ahead. Prices remained steady.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended May 22 totaled 275,909,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 273,924,000 barrels for the preceding week, this represents an increase of 1,985,000 barrels comprising an increase of 1,380,000 barrels in stocks of domestic crude and an increase of 605,000 barrels in stocks of foreign crude.

Price Trends

Advanced
Paraffin, crude scale, ½c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 5, 1953
104.32	104.32	104.75	104.49

(For Current Prices see page 9)

Lighter Fractions

LPG's—Liquefied petroleum gases were in the status of distress materials in the opinion of some observers, who pointed out that sales have been slack. Some even felt that this market currently was even slacker than normal for this season. However, others in the trade reported that they were receiving a somewhat more encouraging amount of orders and that business this quarter would not show a bad overall total.

Posted prices were unchanged from those previously listed. Summer discount rates were in effect from a great many suppliers, although some held to contract prices. The beginning of underground storage has produced a noticeable effect, however, and was expected to continue to take a sizeable amount of the distress material available on the market.

Waxes

Microcrystalline—Prices for all grades of microcrystalline waxes were steady over the week. The market was described as healthy by observers, who noted that although manufacturers were generally able to supply their customers, they had no excess material on their hands. Some shipments were going forward in order to reach customers' storage facilities before the arrival of the height of summer. A continued balanced situation was expected.

Paraffin—Crude scale prices were advanced ½c. per pound in response to the greatly reduced production of lubricating oils in the Pennsylvania fields. The increase in price resulted also from the current situation of active consumer interest and lack of extensive inventories on the part of manufacturers. No further price increases were expected in the period before September 1, and there were no definite indications that there would be any at that time.

Miscellaneous

Crude Oil—Imports of crude oil and petroleum products for the week ended May 22 totaled 1,102,100 barrels per day, according to the American Petroleum Institute. This figure compares with total imports of 845,300 barrels per day for the previous week, and of 949,100 barrels per day for the four week period ended May 22.

The amount of domestic crude petroleum that will be consumed or exported in June, 1954, is estimated by the Bureau of Mines at 6,450,000 barrels daily compared with 6,420,000 forecast for May, 1954. The forecast contains no recommendation as to desirable rates of crude production or of changes in crude stocks. It is an estimate of probable consumption based on actual industry conditions and policies in effect; adjustments for seasonal changes in refined stocks; allowance for the current rate of imports of foreign crude oil and products; and the production of other light oils from natural gas. The forecast includes estimates of a total gasoline demand of 116,000,000 barrels in June, a gasoline yield of 44.0 percent, and total crude runs of 7,010,000 barrels daily.

For Late Market Developments, See Page 4

Phillips, Husky Oil Report Gas Strike in Saskatchewan

Phillips Petroleum Company, Bartlesville, Okla., and Husky Oil & Refining Ltd., Cody, Wyo., have discovered natural gas in the Banff sand of the paleozoic at a wildcat well near the Marengo railpoint, thirty-five miles west of Kindersley and seven miles north of the border town of Alsask, in Saskatchewan. The well also gave a very slight showing of oil.

The strike came at Phillips-Husky Eastside 13-14, about a mile east of the Alberta border and 11 miles northwest of Marengo area wells that found gas in the Viking and Banff sands and some oil in the Detrital Chert. Initial test to yield gas was run in the interval 2,910-27 feet for one hour. Natural gas flowed to the surface immediately at approximately 2,000,000 cubic feet daily. Pipe recovery was two feet of heavily oil-cut mud.

Gulf's Fluid Cat Cracker At Philadelphia on Stream

What is reputed to be the largest fluid catalytic cracking plant to be completed to date went on stream last week at the Girard Point (Philadelphia) refinery of Gulf Oil Corporation. Designed and erected by the M. W. Kellogg Company, subsidiary of Pullman, Inq., the huge unit is designed for a throughput of at least 63,000 barrels of fresh feed daily. The cracker is a "side-by-side" unit, similar to one designed and erected by Kellogg for Gulf at Port Arthur, Tex., in 1951.

Ethyl Promotes Distler

The promotion of Waldemar J. Distler to assistant manager of sales operations, a new position in the New York offce, has been announced by Malcolm P. Murdock, vice-president in charge of sales of Ethyl Corporation. Distler began his Ethyl career nineteen years ago as a field engineer in Dayton, Ohio.

Wyandotte's Michigan Alkali Div. Names Buck to Eastern Field Post

Royce P. Buck has been named field representative in the eastern district office of Wyandotte Chemicals Corporation's Michigan Alkali Division. Mr. Buck's territory will include eastern New York, Vermont, western Connecticut and western Massachusetts. Until his transfer, Mr. Buck was a field representative in Wyandotte's development department, responsible for the introduction and sale of new products. Before that he was with Mallinckrodt Chemical Works as assistant to the industrial sales manager. He also did research work for Lion Oil Company and Eli Lilly & Co.

Standard of Ind. Sets Up Specialties Sales Department

Standard Oil Company (Indiana), Chicago, has established a specialities department in the general manager's sales department, and has made C. J. Struble manager of the department. Mr. Struble has been with the company since 1923, serving first in the Wichita, Kan., sales division. In 1944 he was named sales manager-reseller, and in 1946 was made sales manager-consumer in that division. He was transferred to the company's general office in 1950 as merchandise manager of specialities.

California Standard Oil Plans 2nd Cat Cracker

Plans for immediate construction of a second catalytic cracking unit at Salt Lake City, Utah, to increase output of high octane gasoline have been announced by Standard Oil Company of California. The new plant, designed for a capacity of 8,000 barrels daily, will be an addition to facilities of Salt Lake Refining Company, a subsidiary. It will convert residual fuels to high grade gasoline. It is estimated that actual construction will begin early in July, with completion scheduled for April, 1955.

Trade Briefs

Felmont Oil Company, wholly-owned subsidiary of American Maracaibo Company, New York, has completed its No. 1 Terrell County School Land oil well in Gaines County, Tex.

George W. Zopf, jr., a research chemist in Monsanto Chemical Company's research and engineering division at Dayton, Ohio, has been awarded a leave of absence to study during the 1954-55 academic year at a university of his choice.

SHERWOOD'S

PETROLATUMS
U.S.P. and TECHNICAL

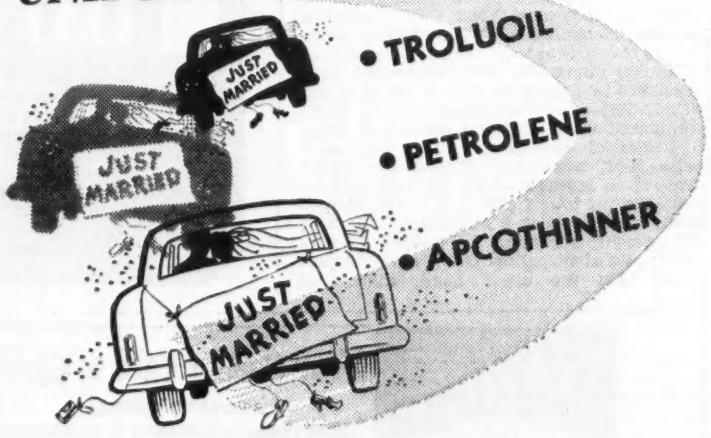
WHITE MINERAL OILS
MEDICINAL U.S.P., N.F. and TECHNICAL

KREMOLINE TROUGH GREASES
SOLID AND SEMI-SOLID FOR BREAD BAKING INDUSTRY

PETROLEUM SULFONATES
A GRADE FOR EVERY USE

SHERWOOD REFINING COMPANY, INC.
REFINERS AND MANUFACTURERS OF PETROLEUM SPECIALTIES
ESTABLISHED 1920
ENGLEWOOD, NEW JERSEY, U.S.A.
Cable Address: 'SHERPETCO ENGLEWOOD, (NEWJERSEYUSA)"
SALES OFFICES: Boston, Mass. • Chicago, Ill. • Detroit, Mich. New Orleans, La. • St. Louis, Mo.
REFINERIES: Gretna, La. Karns City, Pa

UNIFORMITY



• TROLUOIL
• PETROLENE
• APCOTHINNER

THE WEDDING of research and practice is performed regularly by formulators—the practical men of the paint, varnish and lacquer industry. That's why so many of them rely on Apco's three famous solvents and many special naphthas. They know that Apco diluents and thinners resulted from painstaking laboratory research, directed by men who know the practical side of protective coating production. Use Apco solvents in *your* products; and use our Research Laboratories in solving formula problems.

ASPHALTS AND APCO INDUSTRIAL NAPHTHAS ASPHALT EMULSIONS

Atlantic Division
D. H. LITTER CO.
NEW YORK
BOSTON

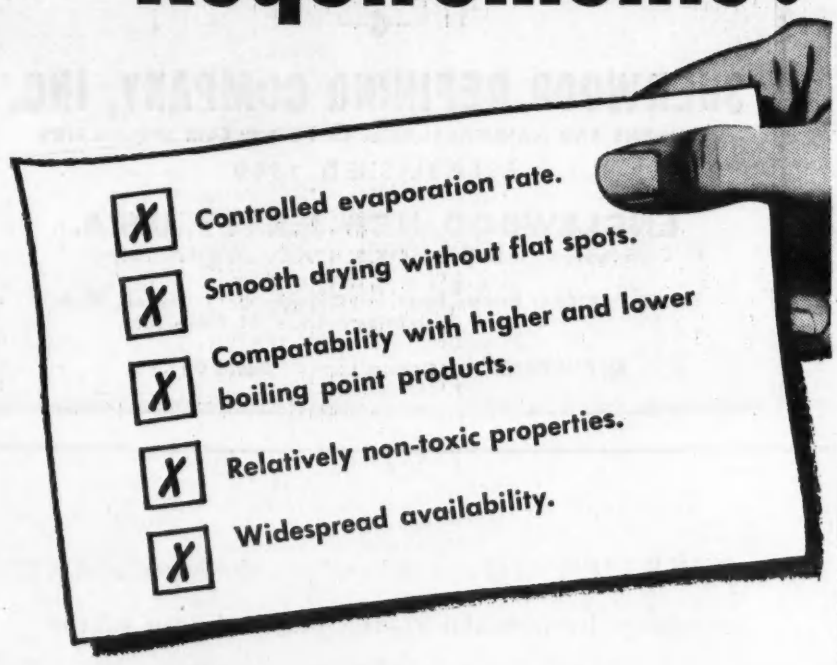
PRODUCERS REFINERS
Anderson-Prichard Oil Corporation
OKLAHOMA CITY, OKLA.

Canadian Representative:
APCO PETROLEUM PRODUCTS, LTD.
MONTREAL
TORONTO

Laboratories: Cyril, Okla., Chicago, Ill., Akron, Ohio, New York City

AKRON CHICAGO KANSAS CITY DETROIT INDIANAPOLIS SOUTH BEND PHILADELPHIA
CINCINNATI CLEVELAND ST. PAUL ST. LOUIS PITTSBURGH MILWAUKEE BALTIMORE

Do Your Solvents Meet these Exacting Requirements?


Controlled evaporation rate.
Smooth drying without flat spots.
Compatability with higher and lower boiling point products.
Relatively non-toxic properties.
Widespread availability.

Be Sure with S/V SOVASOLS

SOCONY-VACUUM

All S/V Sovasols are designed to meet your most exacting needs. All are manufactured by straight run overhead distillation, and all pass pertinent stability and copper corrosion tests. They have good odor, are doctor sweet and color stable.

For full information on the complete line of Sovasol products call your nearest Socony-Vacuum office.

SOCONY-VACUUM OIL CO., INC.

26 Broadway, New York 4, N. Y.

Platformer Construction Started by Gulf Refining

Gulf Refining Company, Pittsburgh, Pa., has announced that contracts have been let for the construction of a platforming catalytic reforming unit and auxiliary units at its Cincinnati (Cleves), Ohio, refinery. The contract has been awarded to Procon Company, Des Plaines, Ill.

Clearing of ground will start soon, with actual construction of the unit to be started in July. The unit will have a capacity of 10,000 barrels per day and will use platinum as a catalyst. It will take low octane naphtha and up-grade it into high octane gasoline. The platformer will also be capable of making benzene, toluene and zylene.

Sun Oil Names Langford

D. Ray Langford has been appointed assistant division purchasing agent for Sun Oil Company's southwest division. Mr. Langford has been a buyer for the company since 1949. He joined Sun in 1946 as field clerk-warehouseman at Sun Field, Starr County, Tex. He was warehouse supervisor at the time of his move to the purchasing department in Dallas.

Dyes Production, Sales: 1953

—Continued from page 3

output of these dyes in 1953; these were azo dyes, which accounted for 40 percent, and anthraquinone vat dyes, which accounted for 31 percent. For ungrouped dyes arranged by class of application, vat dyes were 32 percent of the total output of ungrouped dyes in 1953; direct dyes, 30 percent; and acetate rayon dyes, 19 percent.

Production of azoic dyes and their components totaled 8,700,000 pounds in 1953, or 21 percent more than the 7,200,000 pounds produced in 1952. In 1953 sales of these products were 6,700,000 pounds, valued at $12,200,000, compared with 6,900,000 pounds, valued at $13,400,000, in 1952—a decrease of 3 percent in quantity and 9 percent in value.

Output of Rapidogens

The output of rapidogens was 1,400,000 pounds in 1953, or 8 percent more than the 1,300,000 pounds produced in 1952. Production in 1953 of fast color bases was about the same as in 1952; that of fast color salts increased 18.5 percent in 1953 compared with 1952; and that of naphthol AS and derivatives increased 64 percent.

Among the individual dyes for which statistics were given by the Commission, increases in production in 1953 compared with 1952 were reported for many low- and medium-priced dyes. Production of synthetic indigo in 1953 was 17,800,000 pounds, compared with 17,200,000 pounds in 1952. Output of sulfur black was 9,300,000 pounds in 1953, compared with 8,900,000 in 1952, and that of direct black (C. I. 581) was 6,200,000 pounds in 1953, compared with 5,300,000 pounds in 1952.

Increased output in 1953, compared with 1952, was reported also for sulfur brown, an increase of 52 percent; anthraquinone vat blue CCD (C. I. 1113), 41 percent; methyl violet B and base (C. I. 680), 22 percent; auramine (C. I. 655), 21 percent; and algol yellow GC (Pr. 9), 15 percent. On the other hand, output of chrome blue black R (C. I. 202) was 43 percent lower and that of indanthrene khaki 2G (Pr. 122) was 19 percent lower in 1953 than in 1952.

Synthetic Fertilizers Moves Office

Synthetic Fertilizers & Chemicals, Inc., has moved its main office to 511 Fifth avenue, New York 17. The firm's new telephone number is MUrray Hill 2-4680.

Our 155th Year of Service

VITAMINS WITH "TASTE APPEAL"

One of the more important adjuncts to the rapidly developing science of vitamins . . . the palatibility of tablet products...is today recognized as a primary factor in their preparation and merchandising. Flavors designed for vitamin tablets must be compatible with all ingredients, requiring individual development. They must also possess, in high degree, the twin qualities of stability and uniformity. The DOLCO 5200 FLAVOR LINE is especially suited to this application and the D&O Flavor Laboratories are at your service. Send us a sample of your unflavored material for laboratory testing with several of the popular DOLCO FLAVORS. The finished product will be returned to you for individual evaluation.

D&O ESTABLISHED 1798

DODGE & OLCOTT, INC.

180 Varick Street • New York 14, N. Y.

ESSENTIAL OILS • AROMATIC CHEMICALS
PERFUME BASES • VANILLA • FLAVOR BASES

AROMATICS VERONA DIVISION

Your Calling Card to Quality

AROMATIC CHEMICALS
INDUSTRIAL ODORANTS & DEODORANTS
CUSTOM FRAGRANCES FOR PERFUMES, COSMETICS & TOILETRIES

SOLE REPRESENTATIVES IN THE UNITED STATES FOR J. & E. SOZIO, GRASSE, FRANCE

NATURAL ABSOLUTES & RESINOIDES
ESSENTIAL OILS

AROMATICS DIVISION
VERONA CHEMICAL COMPANY, NEWARK, N. J.

PETROLATUMS

(Refined to strictly controlled quality specifications)

Quaker State Oil Refining Corp.

WAX DEPT. OIL CITY, PA.

Essential Oils, Aromatics, Flavorings

The market in essential oils continued to exhibit strong spots in the camphoraceous and citronella oils. Ocotea cymbarum oil advanced 5 cents, on spot, while citronella oils, both Formosa and Ceylon, were upped a corresponding amount. Camphor sassafrassy and white oils remained firm but unchanged, on spot. The outlook, for the immediate future, at any rate, was for a continuing tightness in the supply of ocotea cymbarum and artificial sassafras oils.

Oil of cedarwood continued strong. The shortage of this oil was expected to be eased in coming weeks as new crop material becomes available. Spot quotations, meanwhile, have advanced 5 cents per pound. Also reported to be continuing on a firm note were oils of petitgrain and patchouli. The former was advanced 15 cents per pound, on spot, and was expected to continue firm in view of the unsettled political conditions in Paraguay. The increasing seriousness of the military situation in Indo-China has been a strong factor in the maintenance of high prices on patchouli oil at origin, it was reported.

Weak spots in essential oils last week were oils of lemongrass, and geranium with clove, coriander, and orange oils noted to be somewhat easier. Lemongrass oil declined 20 cents from prior levels last week while geranium oil, Bourbon were down 25 cents and the Algerian was off $1 per pound. Easiness in the other oils mentioned was primarily due to lower raw material costs and some slackness in consumer demand, it was said.

Among aromatic chemicals, there appeared to be little change, insofar as prices were concerned. The gradual decline in oil of lemongrass has not been reflected in any lowering of citral prices to date, it was noted, while, on the other hand, eugenol, derived from clove leaf oil, was somewhat easier due to some weakness in oil prices at origin.

The trend in the seeds and spices section last week was decidedly downward in view of weakness in demand, on the consumer level. An advance in cassias was the sole increase and this was laid to uneasiness at origin.

Price Trends

Advanced

Oil, anise, USP, 25c. per lb.
Cedarwood, 5c. per lb.
Citronella, Ceylon, 5c. per lb.
Java-type, 5c. per lb.
Ocotea cymbarum, 5c. per lb.
Palmarosa, 30c. per lb.
Petitgrain, 15c. per lb.

Reduced

Celery seed, Indian, 1c. per lb.
Clove, Madagascar, 1c. per lb.
Zanzibar, 1c. per lb.
Coriander seed, ½c. per lb.
Ginger, African, 2c. per lb.
Jamaica, #2, 2½c. per lb.
#3, 2c. per lb.
Nigerian splits, 2½c. per lb.
Oil, cajeput, 5c. per lb.
Coriander, 50c. per lb.
Geranium, Algerian, $1 per lb.
Bourbon, 25c. per lb.
Lemongrass, 20c. per lb.
Orange, California, 3c. per lb.
Wormwood, 50c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	June 5, 1953
137.61	137.74	147.28	152.94

(For Current Prices see page 9)

Essential Oils

Anise—Anise oil although growing scarcer was still reported available at somewhat higher prices than previously quoted. Current quotations ranged from $3.25 to $3.75 per pound on the USP material.

Bergamot — Consumer requirements were being met and prices remained steady. Current quotations ranged from $10.75 to $13 per pound, depending upon supplier.

Bois de Rose—The market was quiet with no price reported. Quotations ranged from $3.95 to $4.75 per pound.

Camphor—The spot market continued firm on camphor oils. With the exception of white oil of camphor, practically all other camphoraceous oils were rapidly approaching a state of exhaustion in supply. Some dealers were apparently in better position than others but the overall outlook was for a continued tightness in supply.

Cedarwood — The supply situation on this oil continued tight last week. New crop material has been making its appearance, however, and it was expected that supply picture would improve in coming weeks. Spot quotations, reflecting the currently tight supply, advanced 5c. per pound, on spot, however, being quoted at 75c. to 90c. per pound.

Citronella—The market continued to advance under a reasonably heavy demand. Spot supplies have been somewhat tight and replacement prices continue quite firm. Ceylon and Java-type citronella oils exhibited strength with the former advancing 5c. on spot and the latter, a similar amount. Current quotations on the Ceylonese oil were 80c. to $1 while the Java-type oil was pegged at 90c. to $1.15.

Clove — There was a slight easing in clove oil prices, on spot, in certain directions, as a result of the decline in clove, at the origin. Quotations were steady at $3.75 to $4.50 per pound.

Coriander—Coriander oil was easier last week, reflecting more favorable raw material costs and spot quotations were noted to be 50c. lower than the former low in the market. The range of prices ran from $15.25 to $20 per pound.

Geranium—Spot quotations were lower last week on Bourbon and Algerian geranium oil. The former was down 25c. per pound and the latter, $1 per pound. Algerian oil was quoted from $9 to $12 per pound while Bourbon oil pegged at $10.50 to $13.50.

Lemon—The market has settled down for the next few months, according to some trade sources, last week. Prices were expected to hold steady and supplies should be ample to meet consumer requirements, on the whole.

Lemongrass—The spot market continued to ease last week. Shipping prices were reported to have come down and spot prices have reflected this situation with an overall decline of 20c. per pound. The market ranged from $1.30 to $2 per pound.

Ocotea Cymbarum—Spot quotations advanced 5c. per pound, on spot, last week. Supplies were reported to be growing increasingly scarcer and the outlook was for higher spot prices to come unless demand should dip sufficiently to counteract further advances in price.

Orange—The market continued about unchanged from the week preceding. Prices ranged from 67c. to $1.25 per pound on the California oil. Other types were unchanged.

Palmarosa—The spot market advanced 30c. per pound. Current quotations ranged from $7.30 to $9 per pound.

Patchouli—The spot market continued in a firm position in view of the seriousness of the situation in Indo-China which borders Malaya, an important producing region. Demand continued on a fairly steady keel, it was said.

Petitgrain—Spot quotations advanced 15c. to bring the low of the market to $3.15 per pound. Unsettled conditions at origin were expected to keep prices firm.

Aromatic Chemicals

Citral — Spot quotations remained unchanged last week. The gradual decline in oil of lemon grass prices has apparently not been reflected as yet in lower citral prices, it was noted.

Citronellal—Prices were very firm in view of the strong market in citronella oil. The outlook for the immediate future was for continued firmness in line with the anticipated tight supply in the oil. Spot quotations ranged from $1.85 to $2.50 per pound.

Eugenol—This item has been quite steady over recent weeks. Spot prices ranged from $2.55 to $3.55 per pound. It was noted that oil of clove leaf, from which eugenol is derived, had begun to show a slight easing last week.

Safrol—The spot market was virtually nominal in view of the extreme scarcity of safrol bearing oils, which includes oil

Imports Detained by FDA

Week Ended May 28

New York

Black pepper (12 lots), 679 bags: moldy and insect bored berries.
Chillies (2 lots), 334 bags: filthy.
Cassia (12 lots), 996 bags: insect infested.
Cumin seed, 208 bags: filthy.
Ginger, 98 bags: wormy.
Gum karaya (8 lots), 926 bags: filthy.
Mace (3 lots) 34 packages: insects.
Nutmegs, 18 bags: moldy and wormy.
Paprika, 50 bags: wormy.
Poppy seed, 400 bags: filthy.

For Late Market Developments, See Page 4

The Pick of the World's Markets

MAGNUS, MABEE & REYNARD, INC.

MOHAWK BRAND

Famous the World Over Since 1895
Costs no more than ordinary brands

PEPPERMINT OIL Single Distilled
PEPPERMINT OIL USP Redistilled
PEPPERMINT OIL USP Triple Distilled
SPEARMINT OIL USP

Wire, 'phone or write for current quotations

M&R MAGNUS

MAGNUS, MABEE & REYNARD, INC.

Since 1895 • ONE OF THE WORLD'S GREATEST SUPPLIERS OF ESSENTIAL OILS

16 Desbrosses Street, New York 13, N. Y. • 221 North La Salle Street, Chicago 1, Ill.

PRODUCED AT OUR OWN FACTORY Est. 1885

Over 65 years young and still pioneering.

Oil Celery — Oil Nutmeg USP
Oil Clove USP — Oil Patchouli
Citral — Oil Sandalwood NF

GEORGE LUEDERS & CO., *Incorporated*

427-429 WASHINGTON STREET, NEW YORK 13, N. Y.

Chicago • San Francisco • Montreal • Factory: Brooklyn
St. Louis • Philadelphia • Los Angeles • Toronto
Shreveport, La. • Vancouver, B. C.

GEORGE LUEDERS & CO. NEW YORK

Florasynth LABORATORIES, INC.

1533 OLMSTEAD AVE • N. Y. 61, N. Y.

SUPREME AROMATICS
ESSENTIALS • FLAVORING
PERFUME • OILS

Chicago 6, Los Angeles 13 and other principal cities in the U. S., Canada and Mexico

Proven Replacements For: BERGAMOT OIL, CITRONELLA OIL, LAVENDER OIL, LEMONGRASS OIL

ESSENTIAL OILS - PERFUME OILS - FLAVORS - AROMATIC CHEMICALS and ODOR MASKS

DOMESTIC - EXPORT *YOUR INQUIRIES SOLICITED*

D. W. HUTCHINSON & CO., INC., 162-164 Front St., New York 38, N. Y.

Founded 1896 Telephone: WHitehall 3-4774

THE BEST YOUR MONEY CAN BUY . . .

"Exchange" Brand CALIFORNIA COLDPRESSED SWEET ORANGE OIL USP XIV and its companion — CALIFORNIA DISTILLED — are always dependable, top grade, uniform quality oils, competitively priced to meet the buyer's needs. Fineness of flavor is *never* a problem or a worry for the manufacturer who uses these very superior, ever-popular, American-made products. Prices . . . . samples . . . . always available on request.

FRITZSCHE Established 1871 *Brothers, Inc.*

PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N. Y.

BRANCH OFFICES and *STOCKS: Atlanta, Georgia, Boston, Massachusetts, *Chicago, Illinois, Cincinnati, Ohio Cleveland, Ohio, *Los Angeles, California, Philadelphia, Pennsylvania, San Francisco, California, St. Louis, Missouri, *Toronto, Canada and *Mexico, D. F. FACTORY: Clifton, N. J.

Exchange

Respected **MASCHMEIJER** *Quality . . .*

MUSK AMBRETTE, 100%
MUSK KETON, 100%
MUSK XYLOL, 100%

Pure, sparkling crystals

A. MASCHMEIJER, JR., Inc.

45 W. 16th St., New York 11, N. Y. Phone: WAtkins 4-9404

One of the World's Largest Producers of Fine Aromatics

Anethol N.F. VIII
Benzaldehyde N.F. VIII
Cinnamic Aldehyde N.F. VIII
Citral

DREYER
FLAVORS, SYNTHETICS and ISOLATES

Eucalyptol USP XIII
Eugenol USP XIII
Menthol Natural USP XIII
Oleo Resin Capsicum

Send Letterhead for Samples, Prices, and Dreyer Catalogue
601 West 26th St., New York 1, N. Y.

Natural Flower Products
Terpeneless Oils • Essential Oils
Perfume Compounds
Aromatic Chemicals
Flavoring Materials

Ungerer & Co.

CHICAGO BOSTON
PHILADELPHIA ST. LOUIS
LOS ANGELES ATLANTA

161 SIXTH AVENUE • NEW YORK 13, N.Y. Plant and Laboratories, TOTOWA, N. J.

ROURE-DUPONT INC.

General Office

366 MADISON AVE., NEW YORK

Chicago Branch
510 North Dearborn St.

Los Angeles Branch
5517 Sunset Blvd., Hollywood

Sole Agents in U.S A. and Canada for

Roure Bertrand Fils and Justin Dupont

Grasse (A.M.) France Argenteuil (S.&O.) France

ESSENTIAL OILS
AROMATIC PRODUCTS

of camphor, ocotea cymbarum and artificial sassafras.

Miscellaneous

Cassia—Among the seeds and spices group, the cassias were the only items to advance, on spot, last week. Batavia cuttings were advanced ¾c. per pound to 15½c. to 16c. while longstick and shortstick, cracked, grades were advanced 1c. The former was currently priced at 16½c. to 17c., and the latter, at 17½c. to 18c.

Celery Seed—Indian celery seed declined 1c. last week and was quoted at 17½c. to 18c., on spot. Reports from India have indicated a good crop year, trade sources stated. French celery seed was steady at 45c. to 47c. per pound.

Clove—Madagascar clove declined 1c., on spot, last week. It was currently quoted at 55c. to 56c. per pound.

Coriander Seed—Moroccan coriander seed was slightly firmer, advancing ½c. per pound to 8½c. Roumanian seed was unchanged.

Ginger—Spot prices were reduced 2c. per pound on Sierra Leone ginger last week and were currently quoted at 24c. per pound. Nigerian splits were down 2½c. per pound and were offered at 22½c. to 23c. Jamaican ginger was also lower in line with the market trend. Number 2 grade was down 2½c. and was quoted at 29½c. while No. 3 grade was off 2c. and was quoted at 28c. The reversal of the advancing trend in ginger was indicative of the current indifference of consumers to the general firmness of prices at origin. Consumers continued to buy more or less on a hand to mouth basis, maintaining inventories at a low level.

Mace—There were no changes in the spot quotations on East and West Indian mace. The former was quoted at $1.33 to $1.35 while the latter was pegged at $1.30.

Nutmeg—There was little reported material available for spot sale. Afloat prices were lower than previously quoted spot prices with East India whole at 38½c. to 39c. and shrivel at 37½c. to 38c. West

—Continued on page 83

POLAK & SCHWARZ
INCORPORATED

667 WASHINGTON ST., NEW YORK 14, N. Y.

WEST COAST DIVISION, 3573 HAYDEN AVENUE
CULVER CITY, CALIFORNIA

CHICAGO, 173 WEST MADISON STREET

- **PERFUME SPECIALTIES**
- **FLAVORS**
- **AROMATIC CHEMICALS**
- **ESSENTIAL OILS**
- **COLORS**

AFFILIATED COMPANIES:

BUENOS AIRES, ARGENTINA
VIENNA, AUSTRIA
BRUSSELS, BELGIUM
RIO DE JANEIRO, BRAZIL
TORONTO, CANADA
SANTIAGO, CHILE
ENFIELD, ENGLAND
BOIS-COLOMBES, FRANCE
EMMERICH, GERMANY
ZAANDAM, HOLLAND
JACARTA, INDONESIA
TEL AVIV, ISRAEL
MILAN, ITALY
OSLO, NORWAY
ROODEPOORT, SOUTH AFRICA
STOCKHOLM, SWEDEN
REINACH, SWITZERLAND

AROMATIC CHEMICALS
—
PERFUME MATERIALS

Van Ameringen Haebler, inc.

521 WEST 57th STREET
NEW YORK 19, NEW YORK

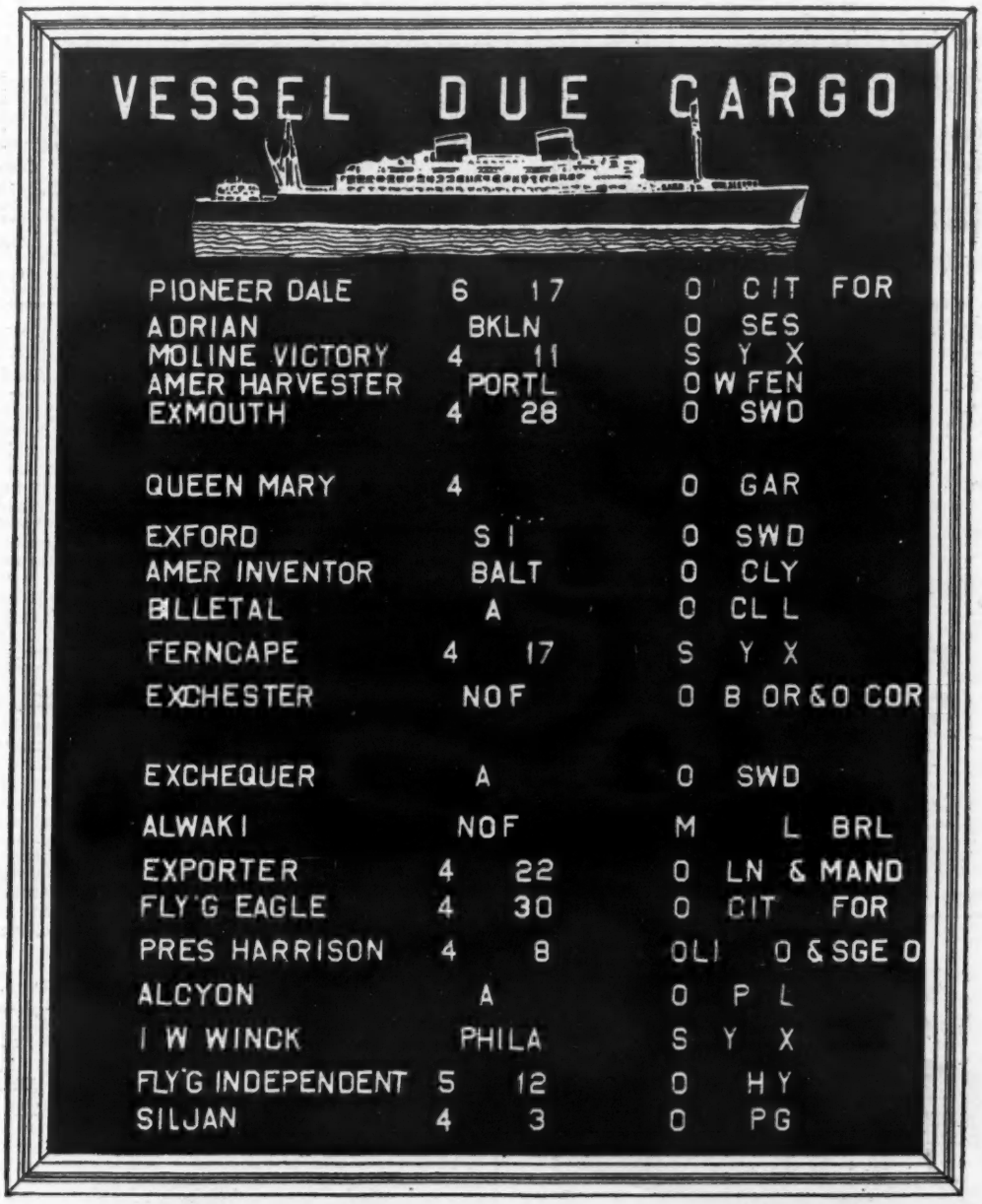
MENTHOL U. S. P. XIV **PROPAC BRAND®** Spot - Future
Large (Oriental Type) Crystals *Regular Crystals*
OCOTEA CYMBARUM **CLOVE LEAF & BUD OIL**

Exclusive Representatives : VINCENZO MANGANARO & FIGLIO, *Messina*
LEMON OIL BERGAMOT OIL MANDARIN OIL
BITTER & SWEET ORANGE OILS

The River Plate Corporation

BIDDLE SAWYER DIVISION
CHRYSLER BUILDING, NEW YORK 17, N. Y.
Plant: Newark, New Jersey • Telephone: MUrray Hill 3-0511
Cable Address: "RIVABID"

Biddle Sawyer & Co., Ltd., London
Biddle Sawyer, Paris
Biddle Sawyer G.M.B.H. Frankfurt-Main
Biddle Sawyer & Co. (Africa) (Pty.) Ltd. Johannesburg
Biddle Sawyer & Co. (India) Ltd. Bombay, Calcutta, Madras
Gordon Woodroffe (Far East) Ltd. Tokyo, Osaka
Rioplatense Importadora y Exportadora S.A.C. Buenos Aires
Cia Nacional de Comercio de Cafe Rio de Janeiro


VESSEL DUE CARGO
PIONEER DALE 6 17 O CIT FOR
ADRIAN BKLN O SES
MOLINE VICTORY 4 11 S Y X
AMER HARVESTER PORTL O W FEN
EXMOUTH 4 28 O SWD
QUEEN MARY 4 O GAR
EXFORD S I O SWD
AMER INVENTOR BALT O CLY
BILLETAL A O CL L
FERNCAPE 4 17 S Y X
EXCHESTER NOF O B OR&O COR
EXCHEQUER A O SWD
ALWAKI NOF M L BRL
EXPORTER 4 22 O LN & MAND
FLY'G EAGLE 4 30 O CIT FOR
PRES HARRISON 4 8 OLI O & SGE O
ALCYON A O P L
I W WINCK PHILA S Y X
FLY'G INDEPENDENT 5 12 O H Y
SILJAN 4 3 O P G

BULLETIN BOARD ON A TYPICAL BUSINESS DAY . . . MM&R IMPORT DIVISION

THE SUN NEVER SETS ON MM&R SOURCES OF SUPPLY

Incoming merchant vessels from all over the Globe carry MM&R cargoes . . . "The Pick of the World's Markets."

MAGNUS, MABEE & REYNARD, INC.

Since 1895 • One of the world's greatest suppliers of essential oils

16 Desbrosses Street, New York 13, N. Y. ‡ 221 North La Salle Street, Chicago 1, Ill.

Your "Q" to Quality SHELLAC

4-Most for Quality

1. Bone dry bleached white shellac.
2. No. 65 extra white refined bone dry bleached shellac.
3. 8 lb extra light pure French varnish.
4. Orange shellacs—all grades.

GUARANTEED TO MEET WITH GOVERNMENT SPECIFICATIONS

Samples Furnished on Request

Agents in Principal Cities:

Allied Basic Chemical Co. Toronto 12, Canada
Allied Basic Chemical Co. Montreal 24, Canada
J. A. Castro Havana, Cuba
C. M. Durbin Company Cincinnati, Ohio
Grant Chemical Co. Boston, Mass.
J. H. Hinz Company Cleveland 13, Ohio
Harry Holland & Son, Inc. Chicago 6, Illinois
R. L. Kelley Danbury, Conn.
J. G. Roger Chemical Co., Inc. Baltimore 23, Maryland
H. C. Ross Burbank, California
E. M. Walls Co. San Francisco, California

THE MANTROSE CORPORATION

Importers • Bleachers • Manufacturers

136 FORTY-FIRST STREET • BROOKLYN 32, N. Y.

PLYMOUTH BRAND

Where Uniformity Is An Achievement

STEARATES

ZINC STEARATE
ALUMINUM STEARATE
CALCIUM STEARATE
BARIUM STEARATE
MAGNESIUM STEARATE

Try stearates in your product. While Stearates are used extensively for Pharmaceuticals, Cosmetics, Rubber, Paints, Varnishes, Lacquers, Plastics, Lubricating Greases, Inks, Waterproofing, Conditioners and Ceramics . . . there are specialized uses, increasing every day, where they are utilized to great advantage. Investigate. Write for samples and data. Technical service available.

Technical Service Available • Send for Samples and Data

M. W. PARSONS-PLYMOUTH, INC.

GENERAL OFFICES 59 HITCHMAN STREET, NEW YORK, N. Y. FACTORY BUSH TERMINAL BUILDINGS, BROOKLYN, N. Y.
DISTRIBUTION POINTS AND AGENTS IN ALL PRINCIPAL CITIES

Protective Coatings Materials

White leads showed marked improvement in consumption, as buyers were interested in filling needs for the exterior painting season, which until this time had been delayed to some extent by a rainy spring. Zinc metal rose ½ cent, with a corresponding increase in zinc dust. The printing ink industry maintained large volume buying interest in several dry colors.

Titanium dioxide pigments for interior finishes, and for coloration of plastics, were in good demand over the week. Selenium was still scarce, as the government took large quantities for use in electronics equipment. However, present demand for cadmium reds and maroons was such that producers did not feel the pinch of any shortages. Lithopone was relatively featureless, with no price changes, moderately good demand, and plentiful supply reported.

Alkyds resins continued to move to consumers in sizable amounts, particularly to the paint industry. However, due to the large number of producers currently engaged in manufacture, a keen competitive tone pervaded the market. The same situation applied for other resins, notably maleics. Pentaerythritols sold well last week. Ester gums were offered at unchanged prices, with consumers interested chiefly in immediate delivery to fill actual needs. Polyvinyl acetate emulsions were subject to continuing strong demand from paint manufacturers. Pyroxylin scrap was unchanged, with some types scarce.

The undertone of the plasticizers market was shaky last week, primarily because of reports that di-iso-octyl phthalate was being offered in some areas at well below market listings. Dioctyl phthalate was also reported subject to shading, with such instances more widespread than previously. A substantial decrease in the price of methanol produced a weakening effect on the dimethyl phthalate market, although no price changes for the latter material were indicated. Diethyl phthalate was unchanged. Good call was noted for dibutyl phthalate, with little or no evidence of shading. It looked to most producers as if that market was settled. Tricresyl phosphate business was slightly below April and early May levels.

The Calcutta and London shellac markets were very firm, and the position of orange grades in this country was so uncertain that marketers here were unwilling to quote prices. Bleached grades remained unchanged. Among other natural resins, copal Manila DK was increased in price, while other gums were unchanged, with the market strong. The Argentine casein market showed signs of becoming even firmer last week, with strong bids for early shipment by England and Germany, indicating that France, at least for the present, had little or none to offer for export. Several grades of hide glue were lowered last week, in an effort to counteract presently lengthy supplies.

Prime Pigments

Acetylene Black—Prices of long standing held without change last week. Output and stocks were available for prompt shipment. Customer interest remained moderate.

Cadmium Colors—Quotations remained the same. Demand was fair to moderate. Selenium continued scarce, but the present position of inquiry permitted adequate supplies of sulfoselenides to be accumulated. Other cadmium colors were plentiful, with material available for prompt shipment.

Chrome Colors—The market continued active last week, with buyers interested in immediate shipment for actual needs. One source reported its customers as on the average keeping a two to three-week inventory. Prices were firm and without change.

Earth Colors—Quotations remained steady and firm in the face of more active demand last week. Supplies were plentiful.

Iron Blues—Market conditions were about unchanged. Printing ink industry demand was well sustained, while paint trade inquiry was slightly above previou levels. Supplies were readily available.

Lead Pigments—The lead market w firmer last week, with lead oxides a vancing ¼c. per pound, and monosilica increased 0.2c. per pound. White lea moved in good quantity to the paint trad as the exterior painting season got und way in full swing. Red lead demand w average for the time of year. Oran mineral consumption was restricted specialized use. Litharge consumpti was only fair. Supplies of all pigmen were plentiful.

Lithopone—Prices remained witho change, reflecting the current quiet stat of the zinc market. Demand was seasonal good. Supplies were excellent.

Titanium Dioxide—Demand for interi finishes continued quite good, as did terest for applications in vinyl tiles a the like. Prices were considered ve steady by most producers, with little lik lihood of change in the near future. P duction and stocks were such that co sumers could get what they needed wit out delay.

Tungstated Colors—Prices held witho change, as the tungsten metal market mained firm after a recent series of redu tions. Supplies were adequate to meet c rent needs.

Zinc Pigments—Slab zinc was high last week. This situation was reflect fully in zinc dust, which rose ½c. pound. Zinc oxides continued to mo at a rate satisfactory to producers, as t paint trade and the rubber industry d played active interest.

Synthetic Resins

The following production informati showing production for February a March, 1954, in pounds, was supplied the Tariff Commission:—

Production

	*February	*Mar
Phenolic and other tar acid resins:—		
Laminating resins	7,477,018	7,420
Adhesive resins	1,111,768	1,223
Protective coating resins, unmodified, modified except by rosin	1,740,455	2,077
Urea and melamine resins:—		
Adhesive resins	8,769,221	8,866
Protective coating resins, straight, modified	2,066,368	2,294
Styrene resins:—		
Protective coating, resins, straight, modified	6,184,533	6,854
Vinyl resins:—		
Total, all types	39,809,528	46,302
Alkyd resins for protective coatings:—		
Phthalic anhydride types unmodified	20,148,809	23,747
Modified with tar acids, rosin and/or other materials	5,996,158	6,681
Polybasic acid types except phthalic:—		
Unmodified	1,594,233	1,482
Modified with tar acids, rosin and/or other material	475,587	446
Rosin modifications for protective coatings:—		
Rosin, rosin esters, unmodified (ester gums, etc):—		
Esterified with glycerol	1,706,917	1,542
Esterified with other alcohols	1,889,159	2,076
Rosin, rosin esters, modified:—		
Modification with phenolic and other tar acid condensates	1,775,954	1,722
Modification with maleic and fumaric acids	2,876,046	2,859
All other modifications	2,967,157	2,663
Coumarone-indene and petroleum polymer resins	17,471,734	17,94
Miscellaneous synthetic plastic and resin materials:—		
Protective coating resins (including epichlorohydrin, acrylic, polyester, silicone and other resins)	689,089	35

* Revised

Alkyds—The market continued ke competitive, due to the large numbe

For Late Market Developments, See Page 4

Price Trends

Advanced

Gum, copal, Manila, DK, 2c. per lb.
Lead monosilicate, 0.2c. per lb.
Red, 95% Pb_3O_4, ¼c. per lb.
97% Pb_3O_4, ¼c. per lb.
98% Pb_3O_4, ¼c. per lb.
Litharge, ¼c. per lb.
Orange mineral, ¼c. per lb.
Zinc dust, ½c. per lb.

Reduced

Glue, hide, 70-94 jellygrams, 3c. per lb.
95-121, 2½c. per lb.
122-149, 2c. per lb.
150-177, 2c. per lb.
178-206, 2c. per lb.
207-236, 2c. per lb.
237-266, 2c. per lb.
267-298, 1½c. per lb.
299-330, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 5, 1953
96.59	96.60	96.58	90.18

(*For Current Prices see page 9*)

producers. Sizable quantities moved to increased consumer demand. Supplies were plentiful. Producers felt the pinch due to current high costs of raw materials, particularly soybeans. Styrenated alkyds were in approximately the same position as that for other types.

Ester Gums—Market continued steady and restricted by specialized needs. There were no price changes. Stocks were plentiful.

Maleics—The market was active, but in some areas subject to heavy competition. Industrial demand for baked on finishes was below par. Reserves were ample.

Pentaerythritols—Prices held without revision in this market. One source reported its entire line to be moving to consumers at a good rate. Present output was well able to keep pace with inquiry.

Phenolics—The varnish trade continued to call for sizable amounts for use as varnish resins last week. Prices held the same.

Polyvinyl Acetate—The paint trade continued to take a large precentage of current output. Consumer use for adhesives still led the end use pattern, however. Sales to all branches of consumption held up very well, with one producer reporting a nearly soldup position. Prices were stable, with supplies in good balance.

Pyroxylin Scrap—This market was about unchanged. Prices remained the same. Supplies of some materials were short.

Urea-Formaldehydes—There was little change in the market last week. Prices held the same. Demand was average, with consumers interested in prompt shipment to cover immediate needs.

Lacquer Materials

Dibutyl Phthalate—The market was judged fairly easy, but not so soft as to warrant price revisions. Lack of strength was primarily due to competitive conditions. Business for May was reported better than that for April. There were no reports of shading.

The Tariff Commission reports that 2,151,425 pounds of dibutyl phthalate were manufactured in March, as compared with 1,060,763 pounds for February.

Diethyl Phthalate—Material appeared to be moving well to consumers last week. The Tariff Commission reports that 1,057,001 pounds of diethyl phthalate were manufactured in March, as compared with 1,377,075 pounds in February.

Di-iso-octyl Phthalate—Reports of prices well below the current list were more than ever persistent in the industry. After a comparatively quiet period following recent reductions, during which many producers felt that the situation would adjust itself without further revisions in quotations, it was apparent last week that competition was about as bad as ever. Large volume sales were reported in the face of the heavy competitive market.

Dioctyl Phthalate—Trade was harassed by competition last week, after a time of relative quiet. There were indications of offerings at well below market price. Floor tile consumption was off, while wire and cable coatings requirements held up at a good rate.

The Tariff Commission reports that 6,506,485 pounds of dioctyl phthalates were produced in March, a figure below the 7,925,127 pounds reported for February. The figures include totals for di-n-octyl, di-iso-octyl, and di-2-ethylhexyl phthalates.

Ethyl Cellulose—Prices remained steady. Business was reported slightly down for May, as compared with April. Demand continued good for ethyl cellulose lacquers. Material was available to consumers in adequate amounts.

Nitrocellulose—The pattern for this material corresponded to that for ethyl cellulose. Business was good in April, and then declined slightly in May. Nitrocellulose lacquer interest was good. Prices were unrevised.

Tricresyl Phosphate—The market was unchanged last week. Plenty of material was available at unrevised prices. Production in March was 2,714,894 pounds, as compared with 1,846,865 pounds for February, according to figures compiled by the Tariff Commission.

Natural Resins

Copal Gum—Manila DK rose 2c. per pound last week, and was offered on spot here at 18c. per pound. Markets at primary sources continued firm, with scanty supplies in some cases. Manila DBB was particularly hard to get, due to active demand in this country and substantial foreign interest. All other copal prices remained firm. Foreign countries, notably Germany and Japan, were active in the market.

Dammar Gum—East India, Singapore, and Siam resins were all firm last week on spot here, due partly to balance of supplies at primary markets, and partly to increased buyer activity in spot markets in this country. There were no price changes reported, with present opinion that there was no weakness in the market.

Shellac—The Calcutta and London markets continued unseasonally strong, leaving sellers here in an uncertain position as to what would occur in the near future. At midweek, there was little or no inclination on the part of marketers here to quote prices for orange grades, due to the present unsettled situation. Bleached grades were available on spot at unchanged prices, but no one was willing to predict future price status.

Fillers and Inerts

Asbestos—There were no price changes during the week. Imported and domestic material continued listed at old quotations. Demand for varied end uses was about average for the time of year. Supplies were plentiful.

Barytes—Listings continued unrevised. Demand continued moderate, primarily for prompt needs.

Bentonite—The market position was relatively unchanged. Prices were the same. Consumers purchased mainly to

SHEFFIELD
CHEMICAL COMPANY, INC., NORWICH, N. Y.
Branch office, 1267 Sixth Ave., New York 19, N. Y.

casein

NEW PROCESS • HIGH ph

PREMIUM DOMESTIC—MURIATIC ACID TYPE

A Division of National Dairy Products Corporation

A GOOD one-coat flat... low cost... maximum nonpenetration... Boy, wait till my customers hear this!

...and they'll be convinced with our unusual on-the-spot demonstration*.

NEW for FLAT WALL PAINTS ★ AROFLAT 3040 3055

Now you can make high quality one-coat flat wall paints . . . with maximum nonpenetrating properties . . . at low cost. The reason – two new AROFLAT resins: 3040 and 3055. One coat of flat formulated with these resins can be applied over "spackle," wall paper, or primed and unprimed surfaces with complete freedom from ghosting as well as excellent color uniformity. And brushing, leveling, lapping, washability and color retention characteristics are excellent, too!

The new AROFLATS give high quality, low cost flat wall paints with solids content in the 25% range. AROFLAT 3040 is supplied in odorless mineral spirits, while AROFLAT 3055 is supplied in low odor mineral spirits for extra economy.

*WRITE, WIRE or TELEPHONE your nearest U.S.I. sales office today for detailed information.

U.S.I. INDUSTRIAL CHEMICALS CO.
Division of National Distillers Products Corporation
120 Broadway, New York 5, N. Y.
Branches in all Principal Cities.

NEVILLE
The charm of a good complexion
Yes, a well-conditioned skin is an advantage to a woman. But any kind of skin is a disadvantage in your varnishes and inks. Prevent skinning effectively and economically, with
NEVILLAC 10°
It's an anti-skinning agent, mild in odor, light in color, low in cost, readily available. You get low retarding effect without sacrificing water resistance.
Write for samples and further details today
NEVILLE CHEMICAL CO. • PITTSBURGH 25, PA.
Plants at Neville Island, Pa., and Anaheim, Cal.
P-53
RESINS—COUMARONE-INDENE • MODIFIED COUMARONE-INDENE • PETROLEUM • ALKYLATED PHENOLS
OILS—SHINGLE STAIN • NEUTRAL • PLASTICIZING • RUBBER RECLAIMING • CREOSOTE
SOLVENTS—T-50-W HI-FLASH • CRUDE & REFINED COAL-TAR • WIRE ENAMEL THINNERS
SPECIALTIES—PHENOTHIAZINE • RUBBER COMPOUNDING MATERIALS • TAR PAINTS

INDCO PRODUCTS
Pitch Compounds
Tall Oil Esters
Gilsonite Compounds
Synthetic Waxes
VINYL PLASTICIZERS
VINYL COMPOUNDS
We also manufacture and compound products to your specifications.
BCC
Cary Chemicals Inc.
SUCCESSORS TO
BURGESS CHEMICAL COMPANY
Sales Offices: 64 Hamilton Street, Paterson 1, N. J., LAmbert 5-0232
Laboratory and Plant: Ryders Lane, Milltown, N. J., Milltown 8-1585-86

cover immediate needs. Stocks were plentiful.

Blanc Fixe—No price changes occurred last week. Business was quiet.

Calcium Carbonate—The paint trade continued to withdraw moderate amounts for actual needs. Business was thought to have improved slightly over the past few weeks. Prices were unchanged.

Fuller's Earth—Material was offered last week at unchanged prices. Buyers showed interest chiefly in prompt shipment to cover immediate needs.

Silica—Prices of long standing continued unaltered last week. Demand for polystyrene paint extenders was average, and characteristic of overall inquiry. Supplies were readily available.

Miscellaneous Materials

Casein—Last week the United Kingdom and Germany were reported bidding in strength in the Argentine. French offerings at present are negligible, due in large measure to a drought. Denmark and the Netherlands had little to offer for export. The Argentine market as a result was very firm, with material largely in the hands of resellers. Spot duty paid prices here ranged from 21½c. to 23½c. depending on quality. Shipment was quoted at 21½c. per pound.

Chlorinated Paraffin—Demand continued good for this item, with consumers buying at unchanged listings. Supplies were well balanced with current inquiry.

Chlorinated Rubber—Prices were unchanged. The supply situation was said to have improved considerably over the past few weeks, as one producer was able to ease allocation restrictions to some extent. Consumer interest remained active, with buyers interested in fully covering current needs.

Glue—Hide glue prices were reduced last week largely due to plentiful supplies of some of the lower grades. Current price for 70-94 jellygram hide glue was 18c. per pound, bags, carlots, delivered; 95-121, 20c. per pound, same basis; 122-149, 22c. per pound, same basis; 150-177, 24c. per pound, same basis; 178-206, 26c., same basis; 207-236, 28c., same basis; 237-266, 30c., same basis; 267-299, 32c., same basis, and 299-330, 24c. per pound, same basis. Grades from 331 to 529 jellygrams remained without change.

Naphthenates — Quotations continued unrevised last week. Inquiry from the paint trade continued good. Stocks were plentiful.

Stearates—Material moved in good volume at unaltered listings. Production and stocks amply filled current needs.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	‡Mon.	Tues.	Wed.	Thur.
Drums—					
K	...	...	$7.48	...	...
N	$7.70	...	...	$7.70	$7.56
WG	7.66	...	7.67§	7.62	...
WW	7.69	...	7.73§	7.76§	7.73§
Bags—					
K	7.36§	...	...	7.45	...
M	7.36§	...	...	7.35	7.31
N	...	...	7.40	7.41	7.41
WG	...	...	7.55	7.85	7.49§
WW	...	...	7.60	7.60	7.60

Tankcars (for week ended May 28)—
WG or better $7.20, N $7.14§, M $7.15, 1,284*

Sales, USDA

543* ... 972* 1,233* 445*

New York
(per 100 lbs., c.l., Friday)
WW $8.75, WG $8.65, N $8.60, B through M $8.45

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.512§	...	.514§	.51	.51
Sales	22,000††	...	20,000††	8,000††	8,000††

New York, Friday, per gal. 7 lbs., tankcars, 61c., l.c.l. 73c.

*Drums equivalent. †Tankcars. ¶Gallons.
§Average price. ‡Holiday.

NY PVLA Sports Outing Planned June 18 at Rye, N.Y., Golf Club

The New York Paint, Varnish & Lacquer Association has announced plans for its annual sports outing, to be held June 18 at the Westchester Country Club, Rye, N. Y. The club's west golf course has been reserved for the association's exclusive use, and play will begin at 9 a.m. Golf events include awarding of the president's trophy and the Harry R. Hillman cup. Prices will also be awarded in the tennis events. Lunch will be served from 11:45 a.m. to 3:30 p.m., and dinner has been scheduled for 7 p.m.

DuPont Assigns Dietz to Cleveland

William H. Dietz, a specialist in the use of pigments by the paper and paint industries, has been assigned to the Cleveland, Ohio, sales district of the pigments department of E. I. duPont de Nemours & Co., Wilmington, Del.

INTERNATIONAL NAVAL STORES CORPORATION
EXCLUSIVE SALES AGENTS OF
SOUTHERN GUM PROCESSING COMPANY
"COLDRI" GUM ROSIN
"SUPEROS" GUM ROSIN
PURE GUM SPIRITS OF TURPENTINE
DOMESTIC • EXPORT
67 WALL STREET
NEW YORK 5, N. Y.
TEL.: Bowling Green 9-4328 Cables: Terpene New York

Argentina's Linseed Oil Availability for 1954 Told

Despite a small new crop of flaxseed, Agentina has over 340,000 tons of linseed oil available for 1954 due to a large carryover, according to a report to the Foreign Agricultural Service from W. L. Rodman, assistant agricultural attache, Buenos Aires.

Flaxseed production in 1953-54 is now estimated semi-officially at 13,700,000 bushels from a sown area of 1,938,500 acres compared with 23,000,000 bushels from a seeded area of 2,520,420 acres and a harvested area of 2,147,500 acres in 1952-53.

Linseed oil production from the current crop should approximate only about 68,000 short tons for export and 33,000 tons for home use. However, the total availability for the 1953-54 crop year was greatly augmented by the substantial carrying on January 1 of approximately 240,000 tons. Although it was feared then that it would be difficult to dispose of these stocks, the volume of export sales in recent months has been sufficient to alleviate this situation.

The Soviet Union has recently contracted for 33,000 tons in addition to its previous purchases since late last fall of 50,000 tons, and is now negotiating for an additional 33,000 tons. France has purchased 24,000 tons of linseed oil. Barters for iron and steel with Belgium, Luxembourg, and other European countries account for about 62,000 tons. Trade agreement sales to Italy, the Netherlands, Finland and Denmark total around 23,000 tons. A barter arrangement with an undisclosed country for a further 44,000 tons of oil reportedly is now under negotiation. The trade anticipates little difficulty in placing much of the stock balance by year-end through either barter deals or direct sales.

Tung Nuts Milling Called Seasonal by Labor Dept.

The wage and hour division of the Department of Labor has issued a ruling that the milling of tung nuts is a seasonal industry and the workers in the industry are therefore exempt from the overtime pay provisions of the wage-hour law.

The ruling was based on hearings conducted in February and becomes effective June 14 unless a request for reconsideration is made to the wage-hour administrator prior to that date.

"Milling of tung nuts" is defined in the order as consisting of the following operations:—Unloading nuts at the mill, cleaning, hulling (including field hulling), separating, drying, grinding, expelling, and filtering; moving the oil into storage tanks; the chemical extraction of oil from tung meal or filter press foots when performed at a tung mill as part of a continuing series of operations with the milling; and any operations performed at the tung mills which are necessary or incident to the foregoing.

Jones-Dabney Resin Div. Technical Director Appointed

Kenneth A. Earhart has been named technical director of the resin division of Jones-Dabney Company, a division of Devoe & Raynolds Company, Inc., New York. Mr. Earhart joined Jones-Dabney in 1930. In 1939 he became research chemist on resins for Stroock & Wittenberg, former subsidiary of the U. S. Industrial Chemicals Company, and was named director two years later. In 1952 he accepted the position of plant manager of the Plaskon coating resins plant.

Extruded Plastics Appoints

William M. Cook, jr., has been named sales manager of Extruded Plastics, Inc., subsidiary of Vick Chemical Company, New York. His headquarters will be in Norwalk, Conn. Mr. Cook joined Vick in 1950 and for the past two years has been Canadian manager of the Vick products division in New York.

Staley Elects Directors

A. E. Staley Manufacturing Company, Decatur, Ill., has elected two new directors. They are Roy L. Rollins, Staley personnel manager in charge of labor relations, and Robert J. Murphey, Decatur accountant.

Buffalo, N.Y., Paint Club Arranges For Summer's Golf Tournaments

The Buffalo (N.Y.) Paint, Varnish and Lacquer Association will launch its summer golf tournaments June 15 at the Brookfield Country Club. Golfers will tee off at 1 p.m. and will play throughout the afternoon. Dinner will be held in the clubhouse, followed by awards of prizes for both golfers and non-golfers.

Additional golf tournaments have been scheduled as follows:—June 29, Cherry Hill Country Club; July 13, Monroe Country Club; July 27, Niagara Falls Country Club; August 4, Lancaster Country Club and September 13, Transit Valley Country Club.

Celanese Reassigns Three To Plastics Division Posts

Celanese Corporation of America, New York, has named Richard J. Savage director of sales of the Marco products department of the plastics division, and Dr. William L. Evers assistant to the technical director of the plastics division, with offices in Newark, N. J. Dr. O. V. Luke will succeed Dr. Evers as assistant manager in charge of plastics division research at Summit, N. J.

Also announced by the company was the resumption of manufacture of cellulose acetate tinsel molding compounds for use in such applications as buttons, umbrella handles, sunglasses, costume jewelry, and other products.

ZECO PRODUCTS

STEARINE PITCH — Re-run to close specifications.
GILSONITE — Selected Ore. Various melting points.
MANJAK — Blackest of asphalt. High melt point.
NATURAL ASPHALT ASPHALT CUTBACKS PITCH SOLUTIONS
IMPORTED OZOKERITE WAXES AMORPHOUS WAXES — Various melt points.
COMPOUNDS to SPECIFICATIONS

G. S. ZIEGLER & COMPANY
99 CHURCH STREET, NEW YORK 7, N. Y.
FACTORY NEW MARKET, N. J.
AGENTS AND WAREHOUSE STOCKS IN PRINCIPAL CITIES

Sorbitol protects against moisture loss . . . The superior polyol for humectant and softener applications in glue specialties, cosmetics, dentifrices, tobacco.

Sorbitol makes excellent alkyds and resins . . . Used with or instead of glycerol and pentaerythritol to obtain special properties in oil modified alkyds and rosin esters.

Sorbitol saves money . . . Sells at a steady low price. No fluctuations. A consistently downward trend over the years, as production has expanded to meet demand.

Sorbitol is plentiful . . . . Derived from a virtually shortage-proof supply of abundant natural sugars . . . is always available for immediate delivery.

Remember
THESE OTHER ATLAS CHEMICALS

EMULSIFIERS: an extensive selection of non-ionic surface active agents, including Atlox® agricultural chemical emulsifiers.

DETERGENTS: Renex® non-ionic detergents, liquid or powder, high or low foaming.

FATTY ACIDS: Hystrene® hydrogenated tallow and soya fatty acids. High purity and uniformity. Superior color stability.

POLYESTER RESINS: Atlac® dry powdered resins for laminating, bonding preforms, and for preparing molding compounds.

Choose **from these ATLAS sorbitol products:**

SORBO®: economical, high quality 70% D-sorbitol solution.
Crystalline D-sorbitol: pellets or powder.
Sorbitol special: 76% polyol solution, resists crystallization.
ARLEX®: 83% polyol solution with highest resistance to crystallization.

Write to Atlas for complete technical and price information.

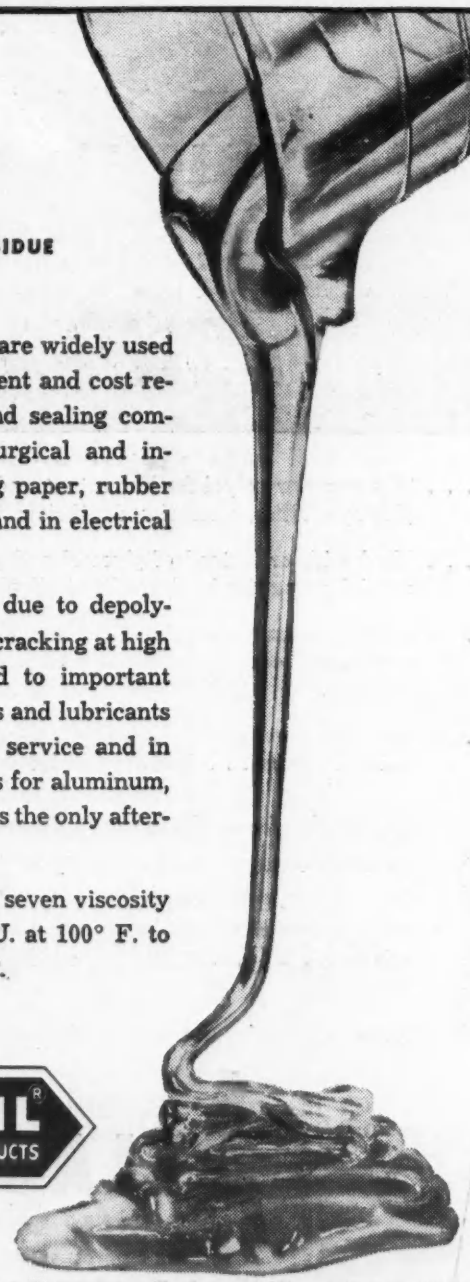
INDUSTRIAL CHEMICALS DEPARTMENT
ATLAS POWDER COMPANY
WILMINGTON 99, DELAWARE
offices in principal cities
ATLAS POWDER COMPANY, CANADA, LTD.
BRANTFORD, CANADA

WOOD FLOUR
WHITE PINE AND BIRCH
ALL MESHES
Inquiries solicited
WILNER WOOD PRODUCTS CO.
NORWAY, MAINE

WATER GROUND MICA FOR PAINTS
"SILVERSHEEN SPECIAL" 325 MESH
RICHMOND MICA CORP.
NEWPORT NEWS, VA. 62 WORTH ST., NEW YORK 13, N. Y.

INDOPOL
REG. U. S. PAT. OFF.
POLYBUTENES

- VISCOUS
- LIGHT COLOR
- STABLE
- LOW CARBON RESIDUE



INDOPOL Polybutenes are widely used for quality improvement and cost reduction of calking and sealing compounds, adhesives, surgical and industrial tapes, tracing paper, rubber products, tree bands and in electrical insulation.

Low carbon residue, due to depolymerization instead of cracking at high temperatures, has led to important applications in greases and lubricants for high temperature service and in rolling or drawing oils for aluminum, etc., where annealing is the only after-treatment.

Dependable supply in seven viscosity grades from 100 S.S.U. at 100° F. to 3000 S.S.U. at 210° F.

INDOIL® CHEMICAL PRODUCTS

INDOIL CHEMICAL COMPANY
910 So. Michigan Ave. • Chicago 80, Illinois

DuPont Appoints Bates To New Planning Post

Lewis H. Bates, assistant to the production director of the pigments department of E. I. duPont de Nemours & Co., Wilmington, Del., has been made manager of the department's newly-formed planning section. John D. Moomaw, sales analyst, has been made a member of the section.

Starting with duPont in 1922, Mr. Bates was engaged in several aspects of pigments research for a number of years and has been manager of pigments plants at Newport, Del., and Newark, N. J. Mr. Moomaw has been with duPont since 1934, working as a chemist at Newark and, for a number of years, in pigments production. He was made sales analyst in the pigments department in 1952.

Devoe & Raynolds Units Make Martin Vice-President

W. Claggett Martin has been appointed vice-president of the Jones-Dabney and Beckwith-Chandler divisions of Devoe & Raynolds Company, New York. In his new assignment, Mr. Martin will be assistant general manager of the Newark, N. J., plant, which is largely devoted to the manufacture and sale of industrial, marine and resin finishes. Before promotion to his present post, he served as general sales manager of the company's eastern district. He joined the sales staff of Jones-Dabney in 1938 at its head office in Louisville, Ky.

Armour Picks Representative

The chemical division of Armour & Co., Chicago, has appointed Raw Materials Company, Boston, as sales representative for its fatty acid derivatives in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont. For the past four years, Raw Materials has been the sales agent for Armour's fatty acid line in the New England area and the fatty acid derivatives will be in addition to those already handled.

MONSANTO
DOP
...Five bulk stations assure fast delivery
Call any Monsanto office:
St. Louis, Atlanta, Boston, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle, Twin Cities, Wilmington, Montreal.

Casein ALL GRADES
• SULPHURIC
• MURIATIC
• LACTIC
• RENNET
Casein for paper coating, adhesives, cold water paints, rubber, plastics.
NATIONAL CASEIN
608-18 West 80th Street, Chicago 20, Illinois • Broad and Fulton Street, Riverton, New Jersey

YOUR BEST BUY
SYNPRO METALLIC STEARATES and SYNPRON VINYL HEAT STABILIZERS
Large new modern plant, increased Technical Service Staff, Thirty years know-how.
Write for samples and data
SYNTHETIC PRODUCTS CO.
1636 Wayside Road Cleveland 12, Ohio

HEADQUARTERS FOR **ROSIN OIL**
WRITE FOR OUR 'PINE TREE PRODUCTS' BOOKLET
NATIONAL ROSIN OIL PRODUCTS, INC.
The Americas Bldg., Rockefeller Cntr. 1270 Av. of the Americas, N. Y. 20, N. Y.
Offices: 3001 West 47th Street, Chicago, Ill. Factory: Savannah, Ga.

for HIGH QUALITY **OHIO-APEX CHEMICALS**

CITIES WITH REPRESENTATIVES OF OHIO APEX DIV. THAT CARRY WAREHOUSE STOCKS

BOSTON, MASSACHUSETTS—Philipp Brothers Chemicals Co.
CHICAGO, ILLINOIS—Central Solvents and Chemicals Co.
CINCINNATI, OHIO—Amsco Solvents and Chemicals Co.
CLEVELAND, OHIO—Ohio Solvents and Chemicals Co.
DETROIT, MICHIGAN—Western Solvents and Chemicals Co.
FORT WAYNE, INDIANA—Hoosier Solvents and Chemicals Corp.
GRAND RAPIDS, MICHIGAN—Wolverine Solvents and Chemicals Co.
HOUSTON, TEXAS—Texas Solvents and Chemicals Co.
INDIANAPOLIS, INDIANA—Hoosier Solvents and Chemicals Corp.
LOS ANGELES, CALIFORNIA—Westvaco Chemical Division, FMC.
LYNDHURST, NEW JERSEY—Stoney-Mueller, Inc.
MILWAUKEE, WISCONSIN—Wisconsin Solvents and Chemicals Corp.
MONTREAL, QUEBEC—Canada Colors and Chemicals Ltd.
NEW ORLEANS, LOUISIANA—Southern Solvents and Chemicals Co.
PROVIDENCE, RHODE ISLAND—Philipp Brothers Chemicals Co.
RIDGEFIELD, NEW JERSEY—Joseph Turner and Co.
ST. LOUIS, MISSOURI—Missouri Solvents and Chemicals Co.
SAN FRANCISCO, CALIFORNIA—EvanStrom Co.
TORONTO, ONTARIO—Canada Colors and Chemicals Ltd.

Look in the Yellow Page section of your local telephone directory.

OHIO APEX fmc — PLASTICIZERS & CHEMICALS
OHIO-APEX DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
NITRO, WEST VIRGINIA
CABLE: OHOPEX NITRO TELEPHONE: NITRO 152

INQUIRIES INVITED

CARLOAD BUYERS OF THE FOLLOWING CHEMICALS:

ZINC STEARATE

ZINC CARBONATE

ZINC SULFATE

ZINC SULFIDE

ZINC ACETATE

•

WALTROW & COMPANY
461 MARKET STREET
SAN FRANCISCO
Phone: YUkon 6-5580

National Lead Names Three In Cincinnati, Ohio, Branch

National Lead Company, New York, has announced three appointments at its Cincinnati, Ohio, branch, including that of S. R. Hollingsworth as manager of the metal division. Named as paint division manager at the branch is C. J. Surman. W. W. Howard has been made manager of the pigments division. The new appointments follow the retirement of H. W. Hundley, who had been manager of the Cincinnati branch since 1943.

Mr. Hollingsworth began his career with the company in 1934, and in 1942 moved to the Cincinnati branch. Mr. Surnam joined the company in 1930, and became a member of the sales staff in 1932. Mr. Howard has been with National Lead since 1950. Mr. Hundley joined United Lead Company, a National Lead subsidiary, in 1907. In 1928 he was named assistant manager of metal sales for the Cincinnati branch.

Pitts. Plate Assigns Wagen To Paint Post in Milwaukee

Appointment of Albert D. Wagen as assistant divisional director of the Milwaukee, Wis., paint division has been announced by E. D. Peck, vice-president in charge of Pittsburgh Plate Glass Company's paint and brush division. Prior to his appointment, Mr. Wagen had been divisional director of the Pacific coast paint division.

Mr. Wagen joined the Milwaukee paint division of Pittsburgh Plate Glass as an accountant in 1935. He was transferred to the Pacific coast paint division in 1941 as divisional accountant and six years later was appointed assistant to the divisional director. In 1950 he was named to head the Pacific coast operations.

Minn. Mining Elects Two

Election of two officers for its international division has been announced by Minnesota Mining & Manufacturing Company, St. Paul, Minn. E. Harlan Church, assistant treasurer of the parent company, has been elected treasurer of the division and Eugene F. Kindler has been chosen assistant treasurer.

Phil. Paint Technicians Plan Outing June 10 at Plymouth Country Club

The Philadelphia Paint & Varnish Production Club has scheduled an outing for June 10 at the Plymouth Country Club. Lunch will be available between 11:30 a.m. and 2 p.m. Dinner has been planned for 6:30 p.m. Reservations for lunch, swimming, golf and dinner will be required.

Which of these 26 depots ensure YOUR supplies of "HORSE HEAD" ZINC PIGMENTS?

NOT JUST ONE,
but several, of these warehouses guard your requirements for the various brands of Horse Head zinc pigments — wherever you are.

Whether you need a regular L.C.L. shipment or an emergency supply between carloads, you can count on Horse Head warehouses to protect your production schedules.

This is why:

1 The Horse Head distribution system consists of an integrated nationwide network of warehouses:
5 on the Pacific Coast
10 in the Midwest
11 in the East and South

2 An unexpectedly heavy call on any one is promptly met by shipments from one or more of the others nearby.

Thus you get maximum delivery service:

1 Fast deliveries
2 Storage reserve in depth
3 Your choice from the most complete line of zinc pigments

THE NEW JERSEY ZINC COMPANY
Founded 1848
160 Front Street, New York 38, N. Y.
HORSE HEAD PRODUCTS

Mallinckrodt
STEARATES
STANDARDIZED AND CUSTOM-MADE
Mallinckrodt®

ALUMINUM
CALCIUM
MAGNESIUM
SODIUM
ZINC

An outstanding line of Stearates—over 20 grades and types. Top quality in any quantity. Samples on request.

MALLINCKRODT CHEMICAL WORKS
Mallinckrodt St., St. Louis 7, Mo. • 72 Gold St., New York 8, N. Y.
CHICAGO · CINCINNATI · CLEVELAND · LOS ANGELES · MONTREAL · PHILADELPHIA · SAN FRANCISCO
Manufacturers of Medicinal, Photographic, Analytical and Industrial Fine Chemicals

Mixed Solvents
Lacquer Thinners
Pigments, Plasticizers
Vinyl Resins
CHEMSOL, INCORPORATED, 74 Dod Court, Elizabeth 3, N. J.
ELizabeth 3-1369-70

WIRZ
WIRZ APPLICATOR TUBES
SPELL EXTRA CONVENIENCE
PROTECTION & MORE SALES
Aluminum • Tin • Tin-coated Lead •
Lead (Plain or decorated) • Compression-Injection Molding
Available with polyethylene cap for complete protection
IDEAL FOR—Lubricants • Caulking Compounds • Paints • Pharmaceuticals
A. H. WIRZ, Inc. 2304 W. Townsend St., Chester, Pa.
Export Division: 768 Drexel Building, Phila. 6, Pa.
New York 17, N.Y. • Chicago 4, Ill. • Memphis 2, Tenn. • Los Angeles 48, Calif. • Havana, Cuba

Get in touch with
PICCO
for high quality dependably uniform
SOLVENTS
AND
SOLVENT OILS

HAVE YOU TRIED PICCO SOLVENTS?
Here are some typical applications—

For preservative treatments, involving copper naphthenate and pentachlorophenol — **Shingle Stain Oil and 538 Heavy Naphtha.**

For paint and varnish removers—**LBAN (low-boiling aromatic naphtha) and Extra Light Solvent Naphthas.**

For the production of lacquers, lacquer thinners, and can coatings—**HiSolv T.**

For the production of finishes for metal, automotive, electrical consumer appliances, and furniture—**HiSolv 30 and 534.**

For Enamel Oil coatings, baked alkyd finishes and chlorinated rubber coatings—**HiFlash Naphtha.**

For roof cements, pitch coatings, and asphalt impregnation—**Heavy Naphthas.**

For pipe line enamel and primer, and by-product pitch coatings—**EW Solvent Naphtha.**

For roller coatings, and to control the flow in dipped coatings, and for the new types of electrostatic spraying—**HiSolv 473.**

To adjust the solvent power of mineral spirits for varnish and alkyd resin manufacture—**HiFlash Naphtha or HiSolv 534.**

To control the brilliance, and to get good leafing in gold and aluminum bronze finishes—**HiFlash Naphtha.**

As a resale item, to go with your specialty industrial coatings—**HiSolv 534 and HiSolv 30.**

PENNSYLVANIA INDUSTRIAL CHEMICAL CORP. CLAIRTON, PA.
Plants at Clairton, Pa.; West Elizabeth, Pa.; and Chester, Pa.
District Sales Offices: New York—Chicago—Philadelphia—Pittsburgh

PICCO

Pennsylvania Industrial Chemical Corporation,
Clairton, Pennsylvania
Please send samples and complete data on PICCO
_____ to be used for (application)
_____
Name_____ Position_____
Company_____
Address_____

CENTURY BRAND
RED OIL—STEARIC ACID
Saponified — Distilled
HYDROGENATED FATTY ACID
(HYDREX)
Cotton Seed Fatty Acids
Tallow Fatty Acids
Specialty Fatty Acids
Corn Oil Fatty Acids
Soya Fatty Acids
GLYCERINE • PITCH • WHITE OLEINE
W. C. HARDESTY CO., INC.
CENTURY STEARIC ACID PRODUCTS, INC.
25 MAIN STREET, BELLEVILLE, NEW JERSEY
FACTORY: DOVER, OHIO • IN CANADA: W C HARDESTY CO OF CANADA LTD., TORONTO

SUN BLEACHED
Beehive Brand BEESWAX
• FINEST QUALITY
• GUARANTEED PURE
WILL & BAUMER CANDLE CO., INC.
Dept. E-6 Established 1855 Syracuse, N. Y.
Spermaceti Red Oil Glycerine
Ceresine Stearic Acid
WARRANTED PURE BEES WAX

ALL COMMERCIAL WAXES
Sole Agents
*RIEBECK MONTAN WAXES
KITAGUMI JAPAN WAXES
*ROXITE SUBSTITUTE WAXES
WEST COAST
W. M. Gillies & Co.
6399 Wilshire Blvd
Los Angeles 48, Calif.
NEW ENGLAND
Philip A. Houghton, Inc.
30 Huntington Ave. Boston 16, Mass.
STROHMEYER & ARPE CO.
139 Franklin Street New York 13, N.Y.
*Reg. Tel. WA 5-2300
CHICAGO
Edward J. Lewis Co.
9 South Clinton St., Chicago 6, Ill
CANADIAN
Drew, Brown Ltd.
5410 Ferrier Street
Montreal 16, Quebec Canada

Lubricating Greases of today
Demand a
STEARIC ACID
of Higher Purity!
HYDROFOL FATTY ACIDS 150
An excellent technical grade Stearic Acid for superior greases. Also for high quality, bulky zinc, calcium, and magnesium stearates and for powdered metals.
HYDROFOL FATTY ACIDS 150 contains 90% Stearic Acid. High melting point makes this product suitable for grinding into fine powder. Acids "150" will not darken, oxidize or deteriorate during normal processing.
SPECIFICATIONS
Titre °C . . . . . 62 to 64
Acid Number . . . . . 195 to 201
Iodine Value . . . . . 3.0 Max.
Saponification Value . . . . 196 to 202
Color (5¼ inch Lovibond) . . 15Y/1.5R
TYPICAL COMPOSITION
(Chain Length-Acids)
C16 . . . . . 10.0%
C18 . . . . . 90.0%
Unsaturated 3.2%
Saturated 96.8%
AVAILABLE TO RESEARCH DEPARTMENTS
continuous Technical Information Service on latest developments in new ADM Chemifats. Furnished in handy file folder form for quick reference. A request on your letterhead will put your name on our Technical Information mailing list.
Hydrofol
ACIDS • GLYCERIDES • SPERM OILS • ALCOHOLS
FROM VEGETABLE • ANIMAL • MARINE OILS and FATS
PRODUCED IN ANY QUANTITY
SAMPLES TO SHIPLOADS
Other ADM Products:
Linseed Oil, Soybean Oil, Fish Oil, Paint Vehicles, Vinyl Plasticizers, Foundry Binders, Industrial Cereals, Vegetable Proteins, Wheat Flour, Dehydrated Alfalfa Meal, Livestock and Poultry Feeds
ARCHER • DANIELS • MIDLAND COMPANY
Chemical Products Division • 2191 West 110th St. • Cleveland 2, Ohio

Oils, Fats and Waxes

Strength of soybeans was reflected in soybean oil and active trading took place at a fractional advance for refiners account. Most of the business took place for June and July requirements. This strength also stiffened cottonseed and corn oils and business was booked at higher levels, while peanut was easier and slightly lower.

Increased cost of soybeans also boosted meal, the market advancing $8 per ton. Cottonseed meal was $1 per ton higher. Peanut meal was lifted $2 to $4 per ton. Linseed meal continued weak and lower.

Improved export demand strengthened tallow and greases. Prices advanced fractionally. Domestic business continued slow, with large buyers lower bids turned down. Cash lard was irregular, closing lower.

Buying interest for industrial oils was inactive. Linseed oil was slightly higher as a result of the weak linseed meal market. Consumers continued to absorb sizable quantities of oil against current contracts, but showed little interest in replacements. Tung oil was inactive, but was well held at unchanged prices. Oiticica oil was firm, due to the stronger primary market. Brazilian castor oil was firmer and shipments were fractionally higher, reflecting the increased cost of castor beans for shipment. Refined fish oil demand was confined to fill-in needs, but tankcar lots were available at concessions. Slight improvement was reported in the demand for crude menhaden for domestic and export delivery at unchanged prices.

While trading in carnauba wax was light and spotty, the market remained steady and quotably unchanged. Crude beeswax continued steady, as were refined grades. Ouricury was scarce and strong, with sales of refined taking place at 1 cent higher. Japan wax also continued firm and in limited supply on spot and for shipment from Japan.

Price Trends

Advanced

Acid, linseed fatty, ½c. per lb.
Castor beans, $3 per ton.
Cottonseed meal, $1 per ton.
Greases, ½c. per lb.
Oil, castor, No. 1, Braz., ¼c. per lb.
Corn, crude, ¼c. per lb.
ref., ¼c. per lb.
Cottonseed, crude, ¼c. per lb.
ref., ¼c. per lb.
Linseed, ½c. per lb.
Soybean, crude, ⅜c. per lb.
ref., ⅜c. per lb.
Peanut meal, $2 to $4 per ton.
Soybean meal, $8 per ton.
Tallow, ¼c. per lb.
Wax, ouricury, ref., 1c. per lb.

Reduced

Cocoa butter, 15c. per lb.
Lard, ¼c. per lb.
Linseed meal, $3.50 per ton.
Oil, peanut, crude, ½c. per lb

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 5, 1953
110.69	107.43	119.66	93.07

(For Current Prices see page 9)

Vegetable Oils

Castor—Consuming demand continued restricted to fill-in needs. All domestic grades were unchanged and steady. No. 1 Brazilian oil was firmer and quoted at 15½c. per pound, tankcars, New York, prompt delivery.

Coconut—Trading was moderate. Crude oil was maintained at 13c. per pound, tankcars, f.o.b. Pacific cost, June delivery and 12¾c. July. The New York market was nominal at 14c. per pound, tankcars, June delivery.

Corn—Crude was stronger and sold at 14¾c. per pound, tankcars, f.o.b. mills, with sellers holding at 15c. Refined oil was higher at 18⅛c. per pound, tankcars, New York delivery.

Cottonseed—Bleachable cottonseed oil futures remained steady, despite light trading, as traders preferred to await the announcement of new cottonseed support plan. The market reflected the strength of soybean and crude cottonseed oils. Old crop months were firm and higher, while new crop options were slightly lower. Most of the mills have shut down operations and this has tightened the supply situation for nearby oil. Crude oil was nominal at 14¾c. per pound, tankcars, f.o.b. mills, southeast; 14½c., sales, Valley and 14¼c., Texas. Refined oil was up fractionally and quoted at 18⅛c. per pound, tankcars, New York, prompt delivery.

Sales of refined cottonseed oil were reported by the Department of Agriculture at 119,168,000 pounds and crude cottonseed oil at 34,980,000 pounds from January 1 through April 30.

CCC offered for June 3,000,000 pounds of crude cottonseed oil for domestic use at not less than 15c. per pound, bulk, Valley basis and 852,000,000 pounds of refined oil at not less than 15c. per pound, bulk, Valley with adjustments for refining, location and quality. These prices will not be reduced during the period ending August 31, 1954.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended June 4 follow:—

	Sales	Cents per pound High	Low	Close
July	82	16.52	16.35	16.50S
September	24	15.22	15.10	15.10@15.16
October	3	14.61	14.55	14.51@14.60
December	12	14.58	14.50	14.42@14.49
1955				
January	1	14.65	14.65	14.40@14.55
March	5	14.53	14.52	14.42@14.50
May	2	14.65	14.54	14.45@14.55

Total sales, 129 contracts.

Memphis.—Crude cottonseed oil sold at 14½c. per pound, tankcars, Valley, and crude soy bean oil at 14½c., Decatur, June and 14c. July. Trading light. Cottonseed meal offered at $65 per ton, sacked, f.o.b. mills, Memphis. Cottonseed hulls, $5.50 per ton, bulk and $9.50 per ton, soacker, Memphis, with demand quiet.

Linseed—Lower cost of linseed meal continued to exert a strengthening influence on the oil market. Raw oil was firmer and lifted ½c. per pound, Tankcars were quoted at 15c. per pound, f.o.b. Minneapolis and 16.25c., New York basis. Trading lacked snap and was confined to fill-in needs. Withdrawalas of oil continued good against former contracts.

Minneapolis.—Only a few scattered tankcars of raw linseed oil were sold for June delivery prior to the price advance. Raw oil was boosted to 15c. a pound, tankcars, f.o.b., Minneapolis. Rank and file of the trade held to the sidelines and the small bookings were of a fill-in nature. Warehouse basing price was 15.3c. a pound, June-July. Oil for August-October was quoted at 12.5c. a pound, tankcars, with considerable variance in August quotations.

Shipments of linseed oil, in pounds, were as follows:—

	1953-54	1952-53
Past week	4,920,000	4,560,000

Flaxseed — Market irregular, dropping sharply late in week.

Minneapolis.—There was a good, steady demand for cash flaxseed for nearby delivery the past week and No. 1 seed sold at as high as $4 a bushel. Late in the week, however, bids were down to $3.80. Purchases in the spot cash market were light—amounting to only four cars. To-arrive bookings totaled 6 cars and around 25,000 bushels in varied-sized lots out of store. Arrivals of flaxseed (a good share of them for the account of CCC) were heavy again last week, totaling 774 cars as against 335 cars the previous week and 151 cars in the like week last year. CCC received 502 cars for the week. Flaxseed planting in most of Minnesota and South Dakota was reported complete, crop advices said. Only spots in northern areas were still seeding. There was considerable moisture in the flaxseed belt, but the weather was cool and cloudy. More sunshine will be needed; otherwise, the crop could be hit by mosaic and other disease.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1953-54	Receipts 1952-53	Shipments 1953-54	Shipments 1952-53
Past week	1,354,500	389,300	99,750	32,300
Since Sept. 1	18,169,400	13,254,800	3,366,900	2,776,450

Oiticica — Market remained steady. Trading was spotty. Offers for shipment from Brazil were limited. Tankcars ranged from 17¼c. to 17½c. per pound, New York delivery, depending upon seller. Drums were maintained at 18½c. to 19c. per pound, as to quantity.

Olive—Buying interest continued restricted to immediate requirements. Prices ranged from $2.15 to $2.25 per gallon, drums, duty paid, depending upon quality and quantity. Stocks on spot were adequate to meet current demand.

Palm—Buying interest continued to lag. Clarified oil was unchanged at 12.4c. per pound, drums, while tankcars were lower at 11¼c. per pound, New York, prompt delivery.

Peanut—Crude oil was easier and off slightly. Sales were reported at 17c. per pound, tankcars, f.o.b. mills. Refined oil was unchanged at 20¾c. per pound, tankcars, New York basis. Last week the government sold about 6 tankcars of oil in Virginia and offered peanuts for 12 tankcars in the Southeast.

Rapeseed—Trading was quiet, but market steady at 17c. per pound, tankcars, New York, prompt delivery.

Soybean — Higher soybeans, coupled with improved demand for oil for prompt delivery advanced the market ⅜c. per pound. Trading took place at 14¼c. per pound, tankcars, Decatur, June delivery;

For Late Market Developments, See Page 4

14½c. July and 11⅜c., October-December. **Refined** salad oil was higher at 17c. per pound, tankcars, New York, June delivery.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended June 4 follow:—

	Sales	Cents per pound High	Low	Close
July	32	14.25	14.00	14.20@14.25
September	65	12.85	12.65	12.76@12.82
October	12	11.74	11.68	11.64@11.72
December	2	11.10	11.06	10.98@11.01
1955				
March	1	11.25	11.25	10.93@11.05

Total sales, 112 contracts.

Tung—Trading lacked snap. Tankcars were maintained at 22½c. per pound, New York, prompt and ⅛c. less for July forward delivery. Drums were unchanged at 24c. and 24½c. per pound, depending upon quantity.

Miscellaneous

Castor Beans — Primary market was firmer and shipments were lifted to $115 per ton, f.o.b. Brazilian ports, up $5 per ton.

Imports of castor beans ad castor oil at New York and Philadelphia last week were as follows:—

	Pounds Beans	Oil
Last week	[illegible]0	8[illegible]0
Previous week	6,965,000	404,000
Corresponding week, 1953	1,627,500	300,000
Total this year	42,948,950	12,710,000
Corresponding period, 1953	56,682,300	52,898,700

Cocoa Butter — Market broke sharply, dropping to $1.10 per pound. Trading was inactive and market was entirely nominal.

Copra—Market remained steady. Prompt shipment was quoted at $170 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases—This market was firmer, due to improved export inquiry. Prices were boosted ⅛c. per pound. Trading for export was fair, while domestic business continued light. Offerings were well held for all grades. Yellow was quoted at 6½c. per pound, tankcars, delivered; house, 6¼c. and brown, 5c., same basis.

Lard—Market was unsteady and fractionally lower. Cash lard was quoted at 18½c. per pound, drums, Chicago. Lard exports in April totaled 40,774,000 pounds. Shipments for first four months of 1954 through April amounted to 137,298,000 pounds, compared with 177,285,000 pounds for the same period last year.

Oleo Oil—Trading was spotty. Prices were steady and nominal at 19⅝c. per pound, drums. Oleo stearine also was unchanged and nominal at 15¼c. per pound, barrels.

Tallow—Increased export inquiry stiffened the market and all grades were lifted ¼c. per pound. Export business was moderate, while domestic demand continued light. Fancy bleachable was quoted at 7⅜c. per pound, tankcars, delivered; extra, 7⅛c.; special, 6⅞c. and No. 1, 6¾c., same basis.

Fish Oils

Cod—Business was reported slow. Replacements were inactive, with tanked Newfoundland oil quoted at 9⅝c. per pound, drums, exdock. Stocks on spot were quoted at 10½c. per pound, drums.

Refined Fish—Demand was spotty and restricted to small to moderate lots for actual needs. Light pressed oil was unchanged at 11c. per pound, tankcars, New York basis. Trading in crude menhaden oil was light on the basis of 7c. per pound, tankcars, f.o.b. Atlantic coast, and 7¼c., Gulf ports for domestic and export account.

Fatty Acids

While trading in fatty acids was spotty, the market was quotably unchanged and steady. Consumers absorbed sizable lots against current orders. Oleic and stearic acids were well held at former levels, despite the fractional decline in the cost of tallow and greases. Vegetable fatty acids were firm, reflecting the strength of basic oils.

Cake and Meal

Cottonseed Meal — Meal was slightly firmer, advancing $1 per ton. Forty-one percent was offered at $65 per ton, Memphis; $73 basis Georgia and Alabama mills, and $70 South Carolina points for June shipment, with July shipment about a $1 per ton premium. Most of the oil mills in the southeast have closed operations for the season, and have very little meal to offer except for local trade. The demand has not been too good, and the supply continued ample.

Linseed Meal—Market continued weak, prices closing lower.

Minneapolis.—Linseed meal prices continued

Investigate the advantages of

EMERSOL® OLEIC ACIDS

to improve your products

at no extra cost!

Resistance to Rancidity! This characteristic, outstanding in all Emersol Elaines, will assure your products keeping that fresh, just-made appeal... will strengthen their "quality" reputation... make them easier to sell.

Color and Heat Stability! Both during processing and subsequent storage of finished products, this stability of Emersol Elaines means your product will have a lighter color. And since this is often interpreted in terms of greater purity, the lighter color increases appeal to consumers.

Consistent Composition and Uniformity! Because of these characteristics, you can expect the same performance time after time, both during processing and in consumer's hands. This applies to appearance as well. Moreover, consistently low unsaponifiable content means more reactive material ... greater money value.

Highest Quality! Compared to competitive grades, Emersol Elaines are the highest quality available. When you need the best, get Emersol 233LL Elaine, the purest oleic acid available commercially.

Select from NINE Emery Oleic Acids...
Emersol 210 Elaine
Emersol 211 Low Titer Elaine
Emersol 220 White Elaine
Emersol 221 Low Titer White Elaine
Emersol 233 LL Elaine
Emersol 240, 241 Vegetable Elaines
Emersol 200, 201 Saponified Red Oils

Write today for specifications on Emery Oleic Acids!

Emery Fatty Acids & Derivatives · Plastolein Plasticizers · Twitchell Oils, Emulsifiers

Emery Industries, Inc., Carew Tower, Cincinnati 2, Ohio

Export: 5035 RCA Bldg., New York 20, N. Y.
New York • Philadelphia • Lowell, Mass.
Chicago • San Francisco
Schibley & Ossmann, Inc., Cleveland
Ecclestone Chemical Co., Detroit
Warehouse stocks also in St. Louis, Buffalo, Baltimore and Los Angeles

Tailor-made WAXES by ALLIED

Hundreds of formulas for different types of wax in our files prove that Allied builds the wax formula to suit the product—

- for any temperature—warm or cold
- for any material—metal, rubber, paper, wood, or plastics
- for any method of application—laminating, brush, roller-coating or spraying in any form—in slabs, drums or solution

Allied starts in where others leave off in the compounding of special waxes. Our highly skilled staff of laboratory technicians—are constantly delving into new applications... new fields of use. Allied will take any wax problem, and give you that worthwhile *extra* in service and results.

STANDARD ALLIED WAXES

MICRO-CRYSTALLINE WAXES: For laminating and dipping purposes, wax-coatings, moisture-proofing, glassines, paraffine-extenders, etc. M.P. 130°F. up to 200°F. In olive-green, amber, natural yellow and white colors. Needle penetrations at 77/100/5 from 3 to 95.

CERESINES • OZOKERITE WAXES

AND OTHER BRANDS

BEESWAXES:
Synthetic and natural—bleached, chemically or naturally, U.S.P.

CARNAUBA EXTENDERS:
For No-Rub Floor Waxes and Carbon Papers.

SUBSTITUTE WAXES: JAPAN, MONTAN

MATCH WAXES

CABLE INSULATION WAXES

WAX AND OIL DIVISION

Allied Asphalt & Mineral Corp.
ESTABLISHED IN 1925
217 BROADWAY, NEW YORK 7 • FACTORY: DUNELLEN, N. J.

AGENTS AND WAREHOUSE STOCKS IN PRINCIPAL CENTERS

ATLANTA — Beeks & Co.
BALTIMORE — Warner-Graham Co.
BOSTON — Mulcahy & Griffin
BUFFALO — Wetherbee Chemical Co.
CHICAGO — Philip E. Cole Co.
CINCINNATI — Beeks & Co.
CLEVELAND — Norman C. Schabel Co.
DETROIT — B. H. Osgood Co.
HOUSTON — Joe Coulson Co.
KANSAS CITY — John T. Kennedy Sales Co.
LOS ANGELES — E. B. Taylor Co.
LOUISVILLE — Beeks & Co.
MONTREAL, CAN. — Wm. J. Michaud Co., Ltd.
PHILADELPHIA — Lees & Dilworth, Inc.
PORTLAND, ORE. — Miller & Zahrung Chemical Co.
ST. LOUIS — Harry G. Knapp
SAN FRANCISCO — E. M. Wolfe
SEATTLE — Carl F. Miller & Co.
TORONTO, CAN. — A. E. Peterson

ESSENTIAL
UNSATURATED
FREE FATTY ACIDS

(Predominantly linolenic and linoleic fatty acids. Formerly known to the industry as "Vitamin F".)

AND

LINOL

(*Oleum Lini*, the triglyceride of Essential Unsaturated Free Fatty Acids.)

Archer-Daniels-Midland company

Specifically processed for the pharmaceutical and cosmetic industries.

600 ROANOKE BUILDING • MINNEAPOLIS 2, MINN.

GROCO 24
REGULAR COCONUT
FATTY ACIDS

SPECIFICATIONS

Titre	22° — 25°C.
Color 5¼" Lovibond Red	1 — 3
Color 5¼" Lovibond Yellow	8 — 12
Color—Gardner 1933	2 — 4
Unsaponifiable	0.25%—0.50%
Saponification Value	261 —270
Acid Value	260 —269
Iodine Value (WIJS)	6 — 12

Send for samples and free booklet "Fatty Acids in Modern Industry."

A. GROSS & COMPANY
295 MADISON AVENUE, NEW YORK 17, N. Y.
Manufacturers since 1837 Factory: Newark, N. J.
Distributors in principal cities

to rule weak as offerings increased in the face of a slack demand. Extracted linseed meal, 36 percent protein, was quoted around $66.50 a ton, bulk, in carlots, f.o.b., Minneapolis, for June-July delivery. Expeller meal, 32 percent protein or better, was priced at $72 a ton, bulk. Resellers were offering both meals at $1 to $2 a ton less. The tone of the market was weak as heavier amounts of meal were expected to show up on the market when crushers start toll-crushing CCC flax.

Shipments of linseed meal, in pounds, were as follows:—

	1953-54	1952-53
Past week	6,840,000	6,480,000
Since Sept. 1	327,770,000	446;140,000

Peanut Feed Meal—Last week the government offered peanuts to produce approximately 500 tons of feed meal, which was slightly less tonnage than has been offered each week during the last several months. Old process 45 percent was offered at $84 per ton f.o.b. Georgia mills and solvent $80 f.o.b. South Alabama mills for June shipment The supply was ample, although there is hardly enough production to cause any serious surplus.

Soybean Meal—Prices on soybean meal have been fluctuating considerably for the last several days as most mills are fairly well sold up. Demand continued only fair and principally for nearby shipments. 44 percent was higher at $89 per ton, bulk, Decatur. Although there does not seem to be any large quantities of soybeans left to be crushed during the remainder of the season, buyers are still operating cautiously.

Waxes

Beeswax — Firmness of crude grades continued to feature the market. African crude was well held at 54c. to 56c. per pound, depending upon quantity and delivery. Trading in refined was light and spotty, at former quotations.

Carnauba—Market remained unchanged and steady, despite spotty demand. Stocks on spot were maintained at prevailing quotations. No. 3, Ceara crude was quoted from 82c. to 84c. per pound, while refined covered the wide range of 84c. to 90c. per pound, depending upon quality. No. 1 Ceara yellow was unchanged at $1.12 to $1.14 per pound, also according to quality.

Japan—Available stocks on spot were light and closely held at 40c. to 42c. per pound, depending upon seller and quantity. Offers for shipment also were scarce and high.

Ouricury—This market was firm and higher. Refined stocks were scarce on spot, with trading on the basis of 99c. to $1 per pound, as to seller.

Palm Oil, Kernel Shipments Seen Setting Record in '53

Palm oil and palm kernel exports during 1953 from the major producing areas of the world appear to have attained record or near-record levels, according to preliminary data available to the Foreign Agricultural Service. Palm oil exports, estimated at 600,775 short tons, exceeded 1952 shipments by 6 percent and the previous high in 1950 by 5 percent.

Exports of kernels, placed at 882,490 tons, were 4 percent larger than in 1952, but were one percent less than the record high of 1950. Both oil and kernel exports were substantially higher than the prewar or immediate postwar averages.

Tackifier Data Offered by Antara

A technical brochure on "Koresin," a tackifier which is a tertiary butyl phenolacetylene condensation product, is now being offered by Antara Chemicals, a sales division of General Aniline & Film Corporation, New York. The booklet describes the physical properties, solubility and compatibility of "Koresin" and lists suggested uses. Copies of the brochure may be obtained free of charge from Antara, 435 Hudson street, New York 14.

PALMID
Trade Mark

Waxy Amides and Diamides — variety of melting points from 38°C to 120°C. Used in detergent and printing ink formulations, powder metalurgy and dye solubilization. Also useful as bodying agents, emulsifiers, heat sealers, paper coating, wax polishes.

Write for Technical Data—Samples

General Biochemicals, Inc.
53 Laboratory Park — Chagrin Falls, Ohio

For Domestic and Export
COTTONSEED MEAL AND CAKE
PEANUT MEAL-SOYABEAN MEAL

Export Codes: ABC 5th, BENTLEY'S JUNIOR PEERLESS

Cable Address: BRODE
Phones: L. D. 271 — Local 38-2544
Teletype No. ME-260

THE BRODE CORPORATION
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE

GEORGE A. MIEL CO., INC.
Custom Wax Blending
Drumming Bleaching WAXES Barrelling Refining
P. O. Box 263, Foot of Page Ave., Lyndhurst, N. J.
RUtherford 2-7985

The best that can be produced. It is 100% PURE BEESWAX and measures up to all the requirements of the U.S.P.

SPECIFY TL BRAND
BEESWAX

THEODOR LEONHARD WAX CO., INC. (Dept. A)
Haledon Established 1852 Paterson, N. J.

FATTY ACID VEGETABLE CAPITAL ANIMAL FISH OIL

DISTILLED
FATTY ACIDS

OLEIC ACID (Red Oil)
STEARIC ACID
ANIMAL FATTY ACID

VEGETABLE
Cottonseed F.A.
Corn F.A.
Soya F.A.
Coconut F.A.
GLYCERINE

Hydrogenated Tallow and Fish Oil Fatty Acids

THE CAPITAL CITY PRODUCTS COMPANY, Columbus 16, Ohio

Get "Consolidated" Dividends in TIME and MONEY

BUY WITH CONFIDENCE FROM THIS 37-YEAR-OLD COMPANY

NOTE THESE VALUES

1—Buflovak 5'x30' Jacketed Rotary Vacuum Dryer; Dust Collector, Condenser, Pump & Motor.
1—Devine #4 Vacuum Shelf Dryer, six shelves, 40x43.
3—American Tool 60" S/S Centrifugals, Center slung.
1—American Tool 42", suspended type, S/S basket Centrifugal, direct connected 40 HP AC Motor.
1—Bartlett & Snow Jacketed Closed Agitated Kettle, 1800 gal., 10' dia. x 4'.
1—Sharples #C27 Super D Hydrator, S/S.
70'—Swenson Walker Continuous Jacketed Crystallizers, 20' sections.
1—Buflovak #67 Rapid Circulator, Triple Effect Evaporator, 1830 sq. ft. total.
1—Sperry iron 24 x 24 plate & frame Filter Press, 24 chambers, 1—½" cake.
1—Shriver, Aluminum, 36 x 36, plate & frame Filter Press, 33 chambers.
1—Shriver iron 24 x 24, jacketed, plate & frame, 38 chambers.
1—Baker Perkins 200 gal. jacketed mixer, Sigma Blades.
1—Monel Enzinger Filter, jacketed, 8 leaves.
2—Baker Perkins "Ter Meer" Continuous Stainless Centrifugals, 12" baskets, XP motor.
2—Stainless Solid Bowl Continuous Centrifugals, 30"x40" & 21"x23".

BEST BUYS on the MARKET

8—#12 Sweetland Filters, 48 bronze leaves, monel covered, on 3" c.c. Hydraulic Hoist, M.D. Sluicing Device. 642 sq. ft. filtering area. Excellent condition.
1—Read Standard horiz. dbl. ribbon Mixer, center disch., 8'x36" x 42", 2,000#, 480 gal., practically new.
1—S. W. 5'x10' stainless single Drum Dryer, 100#, m.d.
1—#28 Devine Vac. Shelf Dryer, 20-59"x78" Shelves, complete.
1—Troy 6"x14" high speed 3-roll mill roller bearing m.d. late type.
7—Pebble Mills, 800 gal., 6'x8'; 235 gal., 5'x4'; 125 gal.; 50 gal.; 25 gal.
12—Sperry 18"x18" Iron Filter Presses, 12 chambers.
4—Mikro Pulverizers, 4TH, 2S1, Bantam SH.
1—6'6"x12' Rotary Granulator or Dryer.
3—3'x50' Rotary D. H. Dryers or Coolers.
3—Mojonnier S/S Vac. Pans, 3', 4', 6'.
3—Ance 4'x9' Chilling Rolls.
3—B & J Rotary Cutters, #2, #1.
1—Oliver 6'x6' Rotary Filter, acid proof.
1—Sharples C-20 Super D-Hydrator.
1—Day #30 Imperial jack. Mixer, 75 gal.

SELL TO "CONSOLIDATED"

YOUR SURPLUS MACHINES —OR ENTIRE PLANTS

SEND LIST TODAY
—CASH WAITING

LET US DO YOUR MAJOR REPAIR WORK

A 24-Hour Round-the-Clock Service

Many plants require prompt repairs to keep in production. Consolidated gives you the facilities of the country's largest Rebuilding Shop for ASME—U69 code work.

We recondition thoroughly and promptly HEAVY PROCESSING EQUIPMENT including Banbury Mixers, Baker Perkins Mixers, Rubber Mills, Calenders, Filters, Jacketed Reactors, etc.

We also repair and build Pressure Vessels, Jacketed Kettles, Vulcanizers meeting code requirements.

TUBULAR EQUIPMENT

We have on hand one of the largest stocks of tube sheets, cupro nickel, admiralty and aluminum tubes, plain and finned, enabling us to give you immediate service.
Repairs may be done in our shops or our crews will visit your plant for retubing and repair of Heat Exchangers, Condensers and other types of tubular equipment.

METAL SPRAYING

We are fully equipped to do metal spraying in a broad variety of metals at our plant or on your premises.
Our 37 years of experience in rebuilding and furnishing a broad line of EQUIPMENT to the PROCESS INDUSTRIES is your best assurance of satisfaction. No matter how urgent your requirements, we are ready to serve you.

Phone, wire, write REPAIR DEPT. for prompt service.

SPACE PREVENTS COMPLETE LISTING. WRITE, PHONE or WIRE YOUR INQUIRIES

FOR OVER A QUARTER CENTURY A SYMBOL OF CONFIDENCE

CONSOLIDATED PRODUCTS CO., INC. *Our 37th Year*

60 BLOOMFIELD STREET
Hoboken, New Jersey
Tel.: HOboken 3-4425 N. Y. Tel.: BArclay 7-0600
Cable Address: "Equipment" Hoboken, N. J.

ANNOUNCEMENT

In order to better serve our customers in the South and Southwest, we are pleased to announce the opening of our Texas office at 4101 San Jacinto, Houston 4, Texas, telephone Justin 6032.

1—SHARPLES P-14 SUPER-D-CANTER 316 S.S.
1—SHARPLES DH-2 NOZLJECTOR CENTRIFUGE 304 S.S.
1—SHARPLES C-20 SUPER-D-HYDRATOR 316 S.S.
3—SHARPLES P-16 MONEL and stainless steel Pressurite Super Centrifuges.
1—BIRD 40" SUSPENDED CENTRIFUGAL, stainless steel perforated basket, motor driven.
1—BIRD 40" SUSPENDED CENTRIFUGAL with rubber covered imperforate basket, bottom discharge, motor driven.
1—EIMCO 4'x5' ROTARY VACUUM FILTER.
1—#12 SWEETLAND FILTER with 36 stainless steel covered leaves.
1—#7 SWEETLAND FILTER with 27 leaves.
4—SHRIVER 30" x 30" c.i. Filter Presses P&F, 30 chambers, open delivery, washing type.
3—PFAUDLER 500, 300 and 100 gal. glass-lined, jacketed, agitated Reactors.
1—2,800 gallon 6'x12' Storage Tank 316 stainless with steam coils.
1—HERSEY 3'x26' stainless steel HOT AIR ROTARY DRYER.
1—F. L. SMIDTH 4'x30' ROTARY KILN, ⅜" shell, welded construction.
1—DEVINE 2'x4' VACUUM DRUM DRYER, 316 S.S.
2—F. J. STOKES ROTARY VACUUM DRYERS, 3'x15' and 30"x8'.
2—LEE 6' x 6' closed S.S. agitated Tanks 50# pressure.
1—LINK BELT 7'5"x20' ROTO-LOUVRE DRYER, 316 S.S.
2—LINK BELT steel, 2'7"x10', 3'10"x16' ROTO-LOUVRE DRYERS, S.S.
1—LINK BELT, Monel 2'7"x8' ROTO-LOUVRE DRYER.
4—ABBE 6'x10' porcelain lined, jacketed PEBBLE MILLS.
1—JEFFREY 30"x24" Type A, HAMMER MILL with 30 HP motor.
5—MIKRO PULVERIZERS #2DH, #2TH, #1SH, #1S1 Bantam.
1—WILLIAMS "SUPER TITAN" 5 Roll Mill.
1—RAYMOND 5 Roll HIGH SIDE MILL.
2—HARDINGE 6'x22", 4½'x16" CONICAL STEEL LINED MILLS.
1—BAKER PERKINS 290 gal. double arm MIXER, 304 S.S.
1—BAKER PERKINS 50 gal., Type JEM, double arm, JACKETED MIXER, 50 HP motor.
2—BAKER PERKINS 100, 50 gal. double arm, JACKETED MIXERS, Sigma Blades.
1—BAKER PERKINS 35 gal. stainless steel, double arm, JACKETED MIXER, Sigma Blades.
4—SIMPSON INTENSIVE MIXERS #0 and #00.
2—#42 ROTEX SIFTERS, 40"x84" double deck Screens.
6—STOKES DD2, DDS2, D4, D3, B2 and R Tablet Machines.

PARTIAL LIST OF VALUES — SEND FOR NEWS FLASH!

Write! Wire! Phone!

BRILL EQUIPMENT COMPANY
2401 THIRD AVENUE, NEW YORK 51, N. Y.
Telephone: CYpress 2-5703 • Cable: Bristen, N. Y.
A SINGLE ITEM OR A COMPLETE PLANT
Write, wire or phone us for complete information — Send us your surplus equipment lists today

EQUIPMENT

for CHEMICAL AND ALLIED INDUSTRIES

18—Aluminum Vertical Storage Tanks, 10,000 gal. each.

1—Buflovak Stainless Steel Double Drum Dryer, 6" x 8".
1—Buflovak chrome Plated Twin Drum Dryer, 24" x 24".
7—Buflovak Single Door Vacuum Shelf Dryers, 20 shelves each.
1—J. P. Devine Double Door Vacuum Shelf Dryer, 13 shelves.
1—Buflovak Type 347 Stainless Steel Rotary Vacuum Dryer, 5' x 20'.
2—Stainless Steel Storage Tanks, 4,000 gal. each.
1—Type 316 Stainless Steel Storage Tank, 3,000 gal.
1—Type 347 Stainless Steel Storage Tank, 1,500 gal.
3—900 gal. Stainless Steel Type 316 Jacketed Digestors.
1—Combustion Engineers Stainless Steel Jacketed Autoclave, 500 gal.
1—Plate Fabricators Steel Jacketed Reactor, 150 gal., 90 psi. ASME.
1—Patterson Kelley 75 gal. Steel Jacketed Reactor, 90 psi.

8—2500 & 4000 gal. Stainless Steel 316 Vertical Tanks.

2—Stainless Steel Jacketed Vacuum Kettles, 150 gal. each.
11—Aluminum Vertical Storage Tanks, 4,000 gal. each.
23—600 gal. Stainless Steel Jacketed Kettles 49" ID x 6' straight side.
2—Tolhurst Solid Curb Stainless Steel Centrifuge, 20" and 26", Perforated Baskets.
2—Shriver 24" x 24" Cast Iron Plate & Frame Filter Presses, 22 chambers each.
1—Sparkler Type 316 Stainless Steel Jacketed Filter, Model 33-D-17.
1—Gemco Double Cone 8' Blender.
1—Lummus Stainless Steel 360 sq. ft. Heat Exchanger.
1—Swenson-Walker Type 316 Jacketed Crystallizer, 4—10' sections.
1—DeLaval Type 316 Stainless Steel Multi Matic Centrifuge.
1—Sharples Type 316 Stainless Steel Super-D-Hydrator.
1—Stokes Stainless Steel Model 43-B Oscillating Granulator.

R. GELB & SONS, INC.
UNION, N. J. Est. 1886 Unionville 2-4900

IMMEDIATE SHIPMENT FROM STOCK

STAINLESS STEEL TANKS

1—6000 gal. Vert. T304—Used.
1—5700 gal. Horiz. T304—NEW.
2—5000 gal. Vert. T304—Used.
1—3000 gal. Vert. T304—NEW.
1—3000 gal. Horiz. T304—Used.
1—2500 gal. Horiz.—Used.
1—2000 gal. Vert. T304—NEW.
2—1000 gal. Vert. T304—NEW.
2—1000 gal. Vert. open—Used.
3—1000 gal. Vert. Square—Used.
40—From 15 gal. to 500 gal.
1—T316 Bin or Hopper, 6'9" x 6'9" x 10' H, 275 cu. ft.

JUST PURCHASED

25—Aluminum Shell & Tube Condensers—380, 400 & 600 sq. ft.
1—Traylor 10'6" dia. x 112' long Rotary Kiln, brick lines.
1—Allis Chalmers 6' dia. x 16' long steel lined Contin. Ball Mill.
3—Abbe & Patterson 4'6" dia. x 12' long ceramic lined contin. Pebble Mills.
2—Charlotte #50 Colloid Mills.
1—Sperry 30" C.I. Filter 46 ch.
7—Pfaudler 150 gal. Glass Lined Jktd. Evaporating Dishes.
1—400 gal. St. St. Hopper, 30# pr.
2—Nettco 30 HP agitator drives, 25:1.
2—Mix. Eq. Co. Vertical Turbine Mixers, 33 TC-500 and 33 TC-1000, St. St.
1—Tolhurst Centerslung Centrifugal 36" bronze basket, lead covered curb.
1—Sharples 16P Pressurtite Centrifuge, St. St.
1—60 gal. Double Arm Mixer, sigma blades, non-jktd.
1—Oliver Precoat Rubber Lined Vacuum Filter 5'3" x 3', closed pressure housing.
1—700 sq. ft. Shell and Tube Condenser, Bronze and T316 St. St.
1—Pfaudler 100 gal. Glass Lined Reactor, Jktd. & Agit.
1—Pfaudler 2 gal. Glass Lined Reactor, jktd. & agit.
2—Blaw-Knox ½ gal. Stainless Steel Autoclaves, 2000# Pr., agit.
1—Readco 1 Qt. Double Arm Sigma Blade Jktd. Mixer, St. St.
1—Day 10 gal. Double Arm Jktd. Mixer, Sigma Blades, St. St.
2—Mikro Pulverizer, St. St. Bantam and #1—SH.
1—6' D x 8' L Porcelain Lined Pebble Mill.

PERRY EQUIPMENT CORP.
1407 N. SIXTH STREET · PHILADELPHIA 22, PA.

MORE FOR YOUR MONEY

BASKET CENTRIFUGALS
Tolhurst 20" solid iron basket vapor-tite
A T & M 20" solid steel basket, 7½ HP motor
Bird 40" steel, perforated, battery of two
A T & M 40" solid steel basket, 25 HP motor
Bird continuous 18"x26" S.S. type 316
Sharples Super-D-Cantor Model PY-14 S.S.
Bird cont. 36"x72", monel & Steel contact
Bird 36"x30" continuous solid S.S. contact

DISINTEGRATORS
Enterprise EMV 6" dia. type 2-S, 5 HP motor
Rietz ROC-9 10 HP 3600 RPM motor
Rietz type KFVL, S.S. contact, 15 HP motor
Enterprise type EVM-2, with 20 HP motor
Rietz RD-12 with 20 HP motor, 3600 RPM motor
Rietz RD-18 with 75 HP, 3600 RPM motor
Valley Foundry 15"x45", 25 HP 1800 RPM
Rietz Pre-Breaker type P3H, Practically new

FILTER PRESSES
Valley 6"x6" alum, 9 plts 10 frms cl del
Republic 16"x16" port, 23 cham br contact
Sperry 18"x18", iron with 23 rec plates
Independent 24"x24", 18 cham, plt & frm
Shriver 24"x24", with 33 rec iron plates
Shriver 24"x24", 24 chambers, plt & frm
Sperry 30"x30", 31 rec plates (6 avail)
Sperry 36"x36", 42 chambers, plum contact
40" plt & frm Filter, approx. 45 cham cl del

PLEASE NOTE
Space limitations make it impossible to list all of the more than 10,000 items we have available—The largest stock on the West Coast. Please send your individual inquiry. We have the right machine for your job!

GOOD USED EQUIPMENT
MACHINERY AND EQUIPMENT COMPANY
GO WEST
514 Bryant Street • San Francisco 7, Calif.

STEIN EQUIP'T OFFERS

DRYERS AND KILNS
Stokes 2'x6' Rotary Vac. Dryer.
Devine #12 Vac. Shelf Dryer, 40"x42".
5 x15 Rotary Kiln brick lined complete.
2—Allbr Nelt 4 x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20".
6—Steam, gas & elect. Dryers.
8—Rotary Dryers Direct & indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

CENTRIFUGALS AND CENTRIFUGES
4—Tolhurst 40" Suspended Type Centrifugals Bottom Discharge.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
11—Sharples No. 5A Stainless Centrifuges. 2 HP. Also Sharples #6.
2—De Laval Multi Clarifiers. 300 & 301.

FILTERS
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Shriver 30"x30" Iron P&F Filter Press.
10 Sperry and Shriver, 12" 18" 24" 30" 36" iron Filter Presses, also disc types.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
450 gal. closed agit. Steel Kettle.
100 gal. Stainless closed Jack. Agit. Kettle.
Pfaudler 500-gal. vert. Glass Lined Tanks.
2—Impreg. Units 30" & 36" dia., complete.
100 gal. Jack. Impregnating Kettle.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 60 to 2500 gals.
1—250 gal. Lead lined Kettle.
5—American Tool 300 gal. Churns.
1—250 gal. Jacketed Copper Kettle.
Stainless, alum., copper, Glass lined, lead lined and steel kettles and tanks.
New Stainless Tanks built to order.
Copper & Stainless Varnish Kettles.

PULVERIZERS AND MILLS
Patterson Pebble Mills, 6'x8', 6'x5', 30"x42".
Abbe 24"x33" & 30"x36". Jar Mills.
Abbe 25 gal. steel encased Jar Mill.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills
Williams #3 & 2XX heavy duty Hammer Mills.
Williams 5 Roll Super Titan Roller Mill.
Ball & Jewell #1 Rotary Cutter.
Buchanan 12"x12" Jaw Crusher.
Hammer Mills & Pulverizers, to 50 HP.
1—Sturtevant 42" Rock Emery Mill.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1 -9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U. S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS
Baker Perkins double arm Mixers, 100, 50 & 9 gal. Also single arm Mixers.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
Day 1000# Steel Powder Mixer M.D.
10—Dry Powder Mixers, 50 to 3,000 #.
4—Day 2½, 8, 15 & 40 gal. Pony Mixers.
1—Ross type 150 gal. change Can Mixer.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers, to 150 gals.

MISC. AND SPECIALS
Stokes #280, 4" dia. Preform Machine.
Sperry 36" sq. iron Filter Presses.
Anderson & French Oil Expellers.
Sly Dust Collector, 242 sq. ft., complete.
3—Buffalo Horiz. Vac. Pumps, 5 H.P.
5—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 4".
Kane 2 H.P. Gas Boilers, 200# pressure.
1—Knapp Model S Can Labeler M.D.
3—Stokes and Day Powder Fillers.
Samco Jr. Vac. liquid Filling Machine.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36" dia.
1—Gould 75 HP 2 stage centrif. Pump.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.
Boilers—Gas, Oil & Coal.
Conveyors & elevators. Scales, etc.

WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY AND COMPLETE PLANTS

STEIN EQUIP'T CO.
107 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

MILLS—3 roll and 5 roll J. H. Day, Pass, Lehman
PAINT MIXERS—J. H. Day, Baker-Perkins
CENTRIFUGAL Tolhurst 48"
PULVERIZERS — Raymond, Mikro
FILLING MACHINES—Powder Liquid Paste
HIGHEST CLASS RECONDITIONING
Telephone: Arda 7-3555
JACKETED KETTLES—Stainless Steel and Plain
COLLOID MILLS
LABELERS — Spot, Can Semi-automatic
TABLET PRESSES — Single and Rotary
WE BUY and/or SELL SINGLE UNITS and COMPLETE PLANTS

NEWMAN TALLOW & SOAP MACHINERY CO. INC.
WE SELL THE WORLD OVER
ESTABLISHED IN 1880
1051-59 WEST 35TH STREET
CHICAGO 9, ILLINOIS

GOOD CONDITION

2—Devine #28 Vacuum Shelf Dryers.
1—A.N. 4 x 9' Double Drum Dryer.
1—Day #30 Imperial Mixer, stainless steel.
2—Reade 50 & 100 gallon double arm Mixer.

Wolf-Perry Machinery Company
293 Frelinghuysen Avenue, Newark 5, N. J.
Let us know about your idle equipment.

EQUIPONOMICS

BIRD CONTINUOUS CENTRIFUGE—36"x50"—S.S. TYPE 304.

AGITATORS-LIGHTNING, 25—1/3 to 3 HP. SS Shafts and Props. XP.
COLLOID MILLS—ALL SS Construction, 3", 6", & 10". With Motors.
FILTER PRESS—SHRIVER, 30"x30", C.I. 24-3" Frames.
KETTLES—GROEN, All SS, 100 PSI Jackets, 2—NEW 50 Gal., 2—60 Gal.
KETTLES—250 Gal. Steel, Jacket 100 PSI, ASME Code. New.
MIXERS—Double Arm Sigma Blades, SS Arms & Trough; 12, 30, 60 & 200 Gal. Jacketed 100 PSI.
TANKS—SS 304, 316 & 347; 35, 300, 1,000 & 5,000 Gal.
W. P. 100 gal. MIXER, Jacketed, Sigma blades.
HEAT EXCHANGERS—Steel, copper, and S.S. up to 400 sq. ft.
LEAD LINED TANKS—400 gal., 1500 gal., closed.
RUBBER LINED TANKS—125 gal. to 500 gal.
MILL, LEIMAN—3 roll ink, 16"x40".
MIXER—Dry Powder 600#, S.S., 3 H.P.
Fabricators of New Stainless Steel Alloy Chemical Equipment ASME Code.
WE BUY SURPLUS EQUIPMENT AND COMPLETE PLANTS

PROCESS PLANTS SERVICE, INC.
333 RAHWAY AVE. ELIZABETH, N. J.
Elizabeth 4-2722

NEW AND GOOD-AS-NEW EQUIPMENT

#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 10"x12" & 24"x26".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—Jeffrey Vibrating Conveyor 15' lg. 12" wide.
1—Bullovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
2—New Ransome Rotating Drum Mixers 9' dia. x 11'9".
3—New Drum Rollers.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
3—French Oil Mill Lard Cookers.
1—Shriver 18" Aluminum Filter 9-plates 9-frames.
15—Heat Exchangers (some stainless steel).
1—Kennedy-Van Saun Rotary Dryer, 4'x40'.
Davenport Rotary Steam Tube Dryer, 6'x36'.
1—Gruendler Hammer Mill, 40 H.P.—New.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22"—Burr-Stone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x27".
1—Patterson Ball Mill, 42x36, Jacketed.
3—Dopp Kettles with agitators, 600 gal. cap.
45—Steel Tanks from 100 to 100,000 gals.
2—Large Steam Jacketed Horizontal Mixers.
Robinson Pulverizer #20, with 2 motors 10 HP each.
Rosinson Ribbon Type Mixer, 30"x10'—like new.
6—Steam Jacketed Blackburn-Smith Filters.
2—Crystallizers—10' long.
2—500 ton Hydraulic Presses.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—300 gal. Double Arm Mixer—jacketed.

SPECIAL
1—Stedman 6-cage Mill #40.
1—#10 J. H. Day 300 gal. Sigma Blade Mixer.

H. LOEB & SON 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

MODERN REBUILT PROCESS EQUIPMENT

UNION Rebuilt Machinery Established 1912

Reduced for Quick Sale

Elgin 24-Head Rotary Vacuum Filler.
Pfaudler King C9 S.S. Rotary Gravity Filler.
Capem 1SF & Resina LC Cappers.
Kiefer Rotary Air Cleaner.
Kyler A and Burt Wraparound Labelers.
Mikro 4TH, 2TH, 1SH, Bantam Pulverizers; Schutz O'Neill Mills.
Lehman High-Speed 3-Roll Mill.
Fitzpatrick S.S. "D" Comminuter.
Koven 20,000 lb. Jacketed Mixer.
Baker Perkins 150 gal. Unidor S. J. Double Arm Mixer.
Baker Perkins, Day, Readco, New Era, Hottman Double Arm Mixers, from 1 to 450 gal. caps.
Day 650 gal. S. J. Jumbo Mixer.
Robinson 200, 400, 600, 1500, 10,000 lbs. Dry Powder Mixers.
Colton 3RP, 2RP Tablet Machines.
Rotex, Robinson, Tyler Hum-mer, Selectro, Grayco, Raymond Sifters.
Copper, Aluminum and S.S. Jacketed and Mixing Kettles.
Huhn Steam Tubular and Gas-Fired Rotary Tubular Dryers.
S. & S. A, B Transwraps.
Stokes and Smith G1, G2, and HG88 Auger Powder Fillers.
Horix S.S. Rotary Filler.
Filler 4-Head and Hope 6-Head S.S. Piston Filler.
Ceco and Jones auto. Cartoners.
Knapp No. 429 Carton Sealer.
Pony M and ML; Ermold and World Semi and Auto. Labelers.
Sperry 12" S.S. Filter Press.
Package Machy. FA, CA2, and FAQ Automatic Wrappers.
Hayssen, Oliver, Scandia and Miller Auto. Wrappers.

THIS IS ONLY A PARTIAL LIST — OVER 5000 MACHINES IN STOCK
Tell Us All Your Machinery Requirements

UNION STANDARD EQUIPMENT CO.
318-322 Lafayette Street New York 12, N. Y.

FOR SALE

COMPLETE CRYSTALLIZING & FILTERING UNIT INSTALLED 1951. WILL SELL AS UNIT OR SEPARATELY.

Swenson Continuous Vacuum Cooling Crystallizer of Rubber Lined Steel and S.S. Construction. Vacuum Cooling Body 3'-6" x 11'-0". Crystallizing Body 5'-0" x 10'-0". W/Piping, Circulating and Vacuum Pumps w/Controls.

Feinc 6'-0" dia. Horiz. Type 304 Stainless Steel Filter w/Vacuum Pump.

Nash H-6 Vacuum Pump.

Direct Heat Rotary Dryer 4' x 30' Stainless Steel Lined.

Shriver 30" Four Eyed, Closed Delivery 18 Chambers C.I. Filter Press—Hydro Closure.

Horiz. Stainless Steel 2100 gal. Storage Tank.

Two 10,000 gal. Steel Mixing Tanks w/Turbo Agitators and Drives.

Kettles, Sifters, Tanks, etc.

INSPECTION BY APPOINTMENT

The Machinery and Equipment Corp.

533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-6680

CONTACT E. C. H. FOR PROCESS EQUIPMENT

FROM OUR LISTINGS

DRUM DRYERS 3 New Combination Twin & Dbl., 24x36" chromed & 32x72" alloy iron.
DRUM DRYER—Double, 36x84".
RIBBON MIXER — 125 cu. ft.,
CENTRIFUGE Rubber covered 40".
VOTATOR—Girdler, S/S, 30 H.P.
DRYER—Louisville, 6'x50'.
DRYER—Hersey, 18"x16'.
DRUM DRYER—Twin, 42"x120".
TUBE DRYER—Buflovac, 6'x23'.
FILTER PRESS, Cast Iron, 30".
MILL—Hardinge, 3'x8".

Special Department—New Mixers, Tanks & Kettles, steel & stainless steel. Fabricated to your specifications.

We Buy Complete Plants or Single Units You Can Bank On

ECH Equipment Clearing House, inc.

111 33rd ST.
B'KLYN 32, N.Y.
SO 8-4451
-8782
-9264
Corner of 33rd ST. & 3rd AVE.

JAW CRUSHER—2x6, 9x15, 11x26.

HAMMER MILLS — Wms. 8x14 & 24x30 w/125 H.P. motor.

FORK LIFT TRUCKS—7500# cap. Hyster—New engines. Pneumatic tires.

NASH VACUUM PUMPS—AL & MD 673, MD 623/20 HP.

NEW DRY MIXERS—100-200-600 pound capacity Steel Spiral — Center discharge.

PEBBLE MILLS—100—235 (1 new) 640—2,000 gal.—motor drives—Lab. jars.

MIXER—W&P double Sigma blade—80 gals. Simpson 1½—Lancaster EAG4.

FILTER PRESSES—Shriver 12" w/13 p&f 4 eye—36" w/33 p&f 2 eye.

CENTRIFUGE — 40" perforated steel 48" Rubber perf.

FEEDER—Jeffrey Waytrol #118—like new.

GEAR MOTORS—New 7½ HP 350 RPM—3/60/220/440—½ price.

MILLS HARDINGE—3'x8"—6'x22" & 7'x48" pebble.

EXHAUSTERS—Unused 35,000 cfm Sturtevants & 3000—4500—7000 cfm.

OVEN—Gehnrich 48" x 48" x 48"—steam heat.

LAWLER COMPANY

LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

JUST PURCHASED!

3—500 gal. Pfaudler jacketed reactors.

1—300 gal. stainless steel jacketed vac. kettle.

3—Stainless steel condensers, 14, 53, 106 sq. ft.

2—Mikro pulverizers, #2SP, #1SI.

1—Devine #5A vac. shelf drier, 11 SS shelves.

3—Colton 5½ T tablet presses, 3" maximum dia.

1—100 gal. W & P mixer 50 HP.

1—Stokes 43A SS oscillating granulator.

3—Stokes & Smith G22 filling machines.

1—Shriver 30" iron filter press 4-eye closed delivery.

1—Fletcher 20" suspended SS centrifugal.

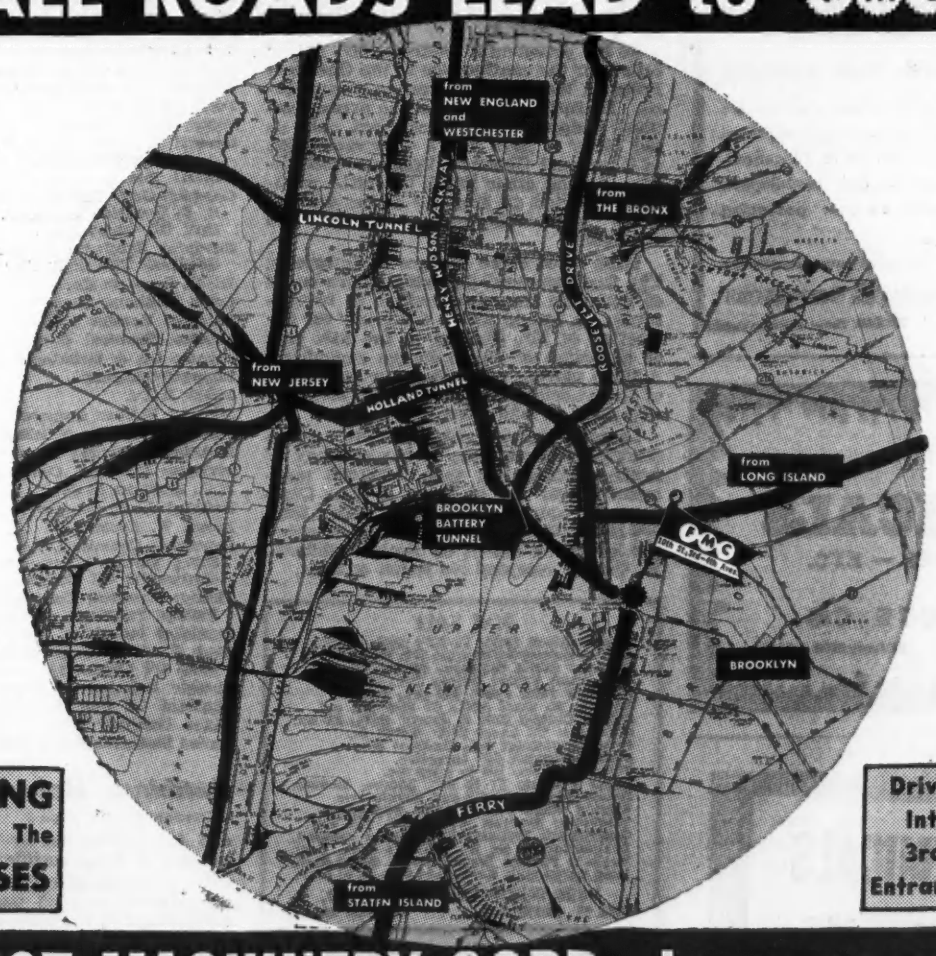
SEND FOR BULLETIN HR-500

CHEMICAL & PROCESS MACHINERY CORPORATION
146 GRAND ST. • NEW YORK 13
WOrth 6-3430

The LARGEST STOCK of PROCESSING EQUIPMENT In the Metropolitan New York Area is the MOST EASILY and QUICKLY REACHED!

ALL DEPARTMENTS UNDER ONE ROOF
WAREHOUSE—SHOPS—ENGINEERING and EXECUTIVE OFFICES

ALL ROADS LEAD to FMC



PARKING Right On The PREMISES

Drive Right Into Our 3rd Ave. Entrance Gate

FIRST MACHINERY CORP., Inc.

FRED R. FIRSTENBERG
President

10th Street from 3rd to 4th Avenues, Brooklyn 15, N. Y.

By Cab

25 Minutes from Grand Central or Penn. Station.
30 Minutes from La Guardia or Newark Air Ports.
25 Minutes from Idlewild Air Port.
25 Minutes from Mid-Town Hotels.

TELEPHONE:
STERLING
8-4672

By Subway

Take the "F" Train of the Independent Line to the 4th Ave. Station which is located right on the FMC premises.

All B.M.T. Subway Trains to De Kalb Ave. Station, transfer to the 4th Ave Line. Get off at the 9th St. Station and walk one block to FMC.

Keep 'em rolling . . . not rusting

For Sale

Steel storage tanks and complete tank cars, 6,500 to 12,000 gallons capacities, coiled and non-coiled.

Marshall Railway Equipment Corporation
50 Church St., New York 7, N. Y., CO 7-6896
Cable MARAILQUIP

CHEMICAL PROCESS EQUIPMENT

MIXER — Baker Perkins 18-DIM, 300 gallons working, SS 304, double sigma blades, 30 HP motor.

SHARPLES NOZLJECTOR—DH2, SS, clarifier bowl, 15 HP motor.

BUFLOVAK DRYER — Single drum, 5'x6', pan feed, pump, doctor blade.

LOUISVILLE DRYER — Steam tube, 6'x35', 27—5" & 27—3" tubes, 90 PSI, feed and discharge hoods, 10 HP.

OLIVER VACUUM FILTER — 8'x10, steel drum, wood deck, 35% submergence, agitated.

VULCAN EVAPORATOR — 350 sq. ft. long tube, Monel, tubes and tube sheets, steel shell, Entrainment Separator.

BALL MILLS—Paterson & Abbe, 6'x8' unlined.

WRITE FOR CURRENT CATALOG FOR OTHER EQUIPMENT IN STOCK

HEAT & POWER CO., Inc.
70 Pine St. New York 5, N. Y.
HAnover 2-4890
Machinery and Equipment Merchants

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less; 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

Send replies to ads with box numbers to OIL, PAINT AND DRUG REPORTER *30 Church st., New York 7, N. Y.*

AGENTS WANTED

Distributors, Sales Agents for Veripon—an improved protein hydrolysate fatty acid condensate. Uses—dispersant, wetting, powerful oil emulsifier, detergent gelling agent, preparation of industrial compounds, especially for insecticide and textile specialties. Protean Chemical Corporation, 150 Nassau St.; New York 38, N. Y.

EQUIPMENT OFFERED

For Sale two Monel Metal Tanks, 12,000 gallons capacity, vertical, flat top and bottom, 13'6" dia. x 11'6" high, available for immediate shipment. L. E. Glick & Co., 626 Broadway, Cincinnati, 2, Ohio, 'phone GArfield 0206.

Pony Labelrite, model 86 ML, new condition; 2—1200 gallon stainless steel tanks, open top flat bottom; Lee 80 gallon stainless steel jacketed kettle, 90#, double motion agitator, with lid. L. E. Glick & Co., 626 Broadway, Cincinnati 2, Ohio.

High Speed Roller Mills, Medium Speed Roller Mills, Pebble Mills, Pony Mixers, Change Can Mixers. We carry a complete line of rebuilt and guaranteed machinery. Write for list. **Irving Barcan Co., 249 Orient Avenue, Jersey City 5, N. J.**

SELL NOW!

TURN INVENTORIES INTO CASH!

RAW MATERIALS

FINISHED PRODUCTS

Chemical Service Corp.

88 BEAVER ST. N. Y. 5, HAnover 2-6970

EST 1925 Cable address "RETORTS" N. Y.

EQUIPMENT OFFERED

1—Davis Eng. 195 sq. ft. Inconel Heat Exchanger; 1—Schutte & Koerting # 4, 3 stage Hydro-Steam Vacuum Unit. All in excellent condition. Priced attractively. OPD 372.

EQUIPMENT WANTED

Wanted—Send us your list of surplus or idle machinery. Interested in large capacity dry & wet Mixers Rotary and batch Dryers. Pulverizers, all kinds of Jacketed Kettles. Distiling apparatus. Filling and Packaging Units, Stainless steel and non-corrosive Tanks and Vessels For 36 years we have been buying from single items to complete plants. Consolidated Products Co., Inc., 60 Bloomfield Street, Hoboken, New Jersey. HO 3-4425., N. Y. Phone BA 7-0600.

Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 377.

Pilot Plant and full scale chemical plant equipment required for large expansion program. Kettles, columns, heat exchangers, tanks, mixers, dryers, centrifuges, pumps, filters, screens, pulverizers, etc. Stainless Steel alloy equipment preferred. Complete plants given immediate study. OPD 378.

FACILITIES OFFERED

Custom Mixing, Grinding and Dispersion—Production time available on—Rotary Cutters—Colloid Mills—Explosion Proof Churns with attached filtering mediums. At your service the technical know-how and completely equipped control laboratory. Address Adhesive & Coating Specialties, Inc., Building No. 22, 410 Frelinghuysen Ave., Newark 5, N. J.

MATERIALS OFFERED

For sale, Oxalic Acid, Acs 1,765 lbs., original J. T. Baker and Mallinckrodt containers $.145 lb., subject prior sale FOB plant, Octagon Process, 15 Bank Street, S. I., N. Y.

Original Containers. One Ton Ferbam 76%, 50's at 48c. pound. Eight Tons Calcium Arsenate, 50's at 7c. pound. Twenty Tons Tribasic Copper Sulphate, 50's at 21c. pound. All F.O.B. Paulsboro, N. J. OPD 382.

DRUMS

• Full removable head containers.

Where added strength and security are needed use our "Bolted Ring Seal" drum supplied in sizes from 10 to 70 gallons. Suitable for solids and semi-liquids. Consult us freely on your packaging problems.

a complete line of light gauge containers

EASTERN STEEL BARREL CORPORATION

Bound Brook New Jersey

POSITIONS OFFERED

Aggressive Salesman wanted for New England territory to represent long established, well rated supplier of Dry Colors, Extenders and Specialties for Paint, Rubber, Plastic industries. Experienced local resident with technical background preferred. OPD 350.

Wanted: Manufacturer of Mineral Colors wishes to employ Superintendent and Manager of Mid-Western Plant. Must have color matching and blending experience. OPD 381.

Product Development Man for large New York State pharmaceutical manufacturer. Ph.D. or equivalent with extensive experience in formulating vitamins, antibiotics, and pharmaceutical preparations Excellent opportunity for aggressive man with broad training. Write fully, education, experience, availability, and salary desired. OPD 369.

REPRESENTATIVES WANTED

Starches—tapioca, corn, potato. Long established importer seeks agents for West Coast and Southeastern Seaboard States to sell to the food, paper and paperboard industries. Should be well-known to the trade, preferably handling other noncompetitive lines. Commission basis. Reply OPD 383.

Manufacturer's representative, responsible, industrial and fine chemical distributing concern, located in New York City, desires to act as manufacturer's agent. 25 years sales and market development experience. OPD 376.

SERVICES OFFERED

Steel Test panels reclaimed for $3.35 per hundred up to size 6x12 inches. Your panels returned free of rust and in excellent condition for use without sanding. Satisfaction unconditionally guaranteed. The Makit Company, Box 146 Station B. Toledo 6, Ohio.

MCA Picks Emmerich

—Continued from page 5

dent, Shawinigan Chemicals, Ltd., Montreal, and J. Clarke Cassidy, president, Niagara Alkali Company, New York. Charles E. Wilson, board chairman of Grace Chemical Company, New York, was elected a director of MCA for a term expiring next May 31.

In his presidential address, Mr. Foster called for the continuance of the Chemical Progress Week program on an annual basis. He further urged that the present national setup be left intact, not only as the focus of next year's observance, but as a national Chemical Progress Committee. Among other items, the MCA president reported an increase in the association's membership—from 127 to 149 companies.

MCA voted three changes in its bylaws. The first increased the association's board of directors from twenty-four to twenty-seven. A second action made way for the election of Mr. Munson to the new post of chairman of the executive committee. A third change provides for a revamping of the association's structure for membership dues, to take effect in 1955.

Lammot duPont, safety awards went to Sunkist Growers, Inc., in the category of firms working less than 2,000,000 man-hours a year and to Rohm & Haas Company for concerns with more than 2,000,000 man-hours. James A. Finley accepted the award on behalf of Sunkist while L. W. Covert accepted for Rohm & Haas.

WANTED!

SURPLUS CHEMICALS

SOLVENTS — RESINS — OILS — WAXES — ETC.

MANUFACTURERS PRODUCTS CO.

521 FIFTH AVE., NEW YORK 17, N. Y. MUrray Hill 7-5697

we will buy your...

SURPLUS CHEMICALS

SOLVENTS WAXES OILS

RESINS DRUGS ETC.

WIRE OR PHONE FOR IMMEDIATE ACTION

All offers held in strictest confidence

Barclay CHEMICAL COMPANY, inc.

77 VARICK STREET NEW YORK 13, N. Y. WO 4-5120

FOR SALE

Dryer: Steam tube, 14x72", stain. steel.
Scales: Hopper batch type, 500, 1000, 2000#.
Hammer Mills: Williams, Mikro, Prater.
Vac. Drum Dryer: Davine 2x4', st. steel.
Pressure Tank 8x40', 125 psi., ASME.
Kettles: st. steel agit., 50 and 150 gal.
Rotary Cutter: Ball & Jewell #1½, 20 hp.
Clarifiers: De Laval 84-51 motor dr.
Press: Davenport 3-A, Durimet con.
Mixer: Simpson 36" intensive.
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Dough Mixers: Single and double arm.
Colloid Mills: Premier and Eppenbach.
Vibrators: Syntron model F22, 220 volt.
Centrifugal: Tolhurst 32", rubber covered.
Evaporator: 60 sq. ft., type 316 stain. steel.
Vacuum Pumps: Stokes, Nash, Beach-Russ.
Heat Exchanger: Karbate 16.5 sq. ft. in area.

LOEB EQUIPMENT SUPPLY CO.

1925 W. North Ave. Chicago 22, Ill.

AVAILABLE

CUSTOM REFINING FACILITIES . . .

• Complete Distillation Service • Distillations
• Extractions • Fractionations
Drum Lots—Tank Cars

WANTED

• All Types of Crude Mixtures
• By-Products, Residues, Wastes
• Contaminated Solvents

Trufana CHEMICAL & ENGINEERING CO., Inc.

Box 426, Union, N. J. UNionville 2-7340

Rubber Plants Commission

—Continued from page 3

posal on that facility or any similar facility, as provided in section 16 of the disposal act. The commission feels that this provision of the law may broaden the sales pattern and increase the effectiveness of the program."

Bidders Are Listed

Listed below are the names of the bidders in alphabetical order who submitted one or more offers for the facilities. In certain instances, the names of the participating companies or shareholders are indented under the name of the bidder:—

American Chemical Corporation.
  Richfield Oil Corporation.
  Stauffer Chemical Company.
American Synthetic Rubber Corporation.
  American Biltrite Rubber Company.
  American Cyanamid Company.
  Anacoda Wire & Cable Company.
  Brown Rubber Company.
  Dewey & Almy Chemical Company.
  Dunlop Tire & Rubber Company.
  Endicott-Johnson Corporation.
  Faultless Rubber Company.
  Hewitt-Robins, Inc.
  General Cable Company.
  Goodall Rubber Company.
  Johnson Rubber Company.
  KYS Corporation.
    Bata Shoe Company.
    Bristol Manufacturing Company.
    Converse Rubber Company.
    Goodyear Footwear Corporation.
    Goodyear Rubber Company.
    LaCrosse Rubber Mills Company.
    Servus Rubber Company.
    Tingley Reliance Rubber Company.
    Tyer Rubber Company.
  Phelps Dodge Cooper Products Corporation.
  Raybestos-Manhattan, Inc.
  Rome Cable Corporation.
  Seamless Rubber Company.
  Simplex Wire & Cable Company.
  Sponge Rubber Products Company.
  Thermoid Company.
  Wooster Rubber Company.
Climax Molybdenum Company.
Copolymer Corporation.
  Armstrong Rubber Company.
  Armstrong Rubber Manufacturing Company.
  Dayton Rubber Company.
  Gates Rubber Company.
  Mansfield Tire & Rubber Corporation.
  Sears, Roebuck & Co.
  Seiberling Rubber Company.
Dow Chemical Company.
Esso Standard Oil Company.
Firestone Tire & Rubber Company.
Food Machinery & Chemical Corporation.
Foster Grant Company.
General Chemical Division, Allied Chemical & Dye Corporation.
General Tire & Rubber Company.
Goodrich-Gulf Chemicals, Inc.
  B. F. Goodrich Company.
  Gulf Oil Corporation.
Goodyear Synthetic Rubber Corporation.
  Goodyear Tire & Rubber Company.
W. R. Grace & Co.
Great Southern Chemical Corporation.
Hercules Powder Company.
Heyden Chemical Corporation.
Humble Oil & Refining Company.
Koppers Company.
Merck & Co.
Midland Rubber Corporation.
Minnesota Mining & Manufacturing Company.
Monsanto Chemical Company.
Montrose Chemical Company.
J. G. Mulligan & Co.
National Lead Company.
Edwin W. Pauley.
Petroleum Chemicals, Inc.
  Cities Service Company.
  Continental Oil Company.
Phillips Chemical Company.
  Phillips Petroleum Company.
Publicker Industries, Inc.
Shell Chemical Corporation.
  Shell Oil Company.
Sinclair Refining Company.
Standard Oil Company of California.
Texas Company.
United States Rubber Company.

Antibiotic Rule Repeal

—Continued from page 3

end to certification or reduction in the number of drugs certified.

Certification of certain antibiotic drugs was started in 1945 when the penicillin amendment to the food, drug and cosmetic act was enacted, and broadened later to include streptomycin, chlortetracycline, chloramphenicol and bacitracin. It was made a requirement of law at the request of the FDA and with the consent of the industry because so little was known about this new field of medicine.

After nearly ten years of operation under the law most of the manufacturers now feel that certification has now served its purpose of assuring the production of drugs with a high standard of quality and there is no longer scientific need for the government checktesting each batch produced by the industry. FDA officials are not convinced, however, that certification is no longer desirable and will oppose any move to end the requirements.

Advertisers Index

Alan Wood Steel Co. 82
Allied Asphalt & Mineral Corp. 77
Aluminum Import Corp. 41
American Agricultural Chemical Co. 1
American British Chem. Supplies, Inc. 49
American Potash & Chemical Corp. 21
Anderson-Prichard Oil Corp. 65
Ansul Chemical Co. 49
Archer-Daniels-Midland Co. 76, 78
Ashcraft-Wilkinson Co. 28
Atlas Powder Co. 73

Baker, J. T., Chemical Co. 8
Barclay Chemical Co. 82
Bareco Oil Co. 64
Barrett Division 50
Bemis Bro. Bag Co. 43
Benzol Products Co. 63
Berkshire Chemicals, Inc. 58
Bersworth Chemical Co. 37
Better Finishes & Coatings, Inc. 36
Bios Laboratories, Inc. 61
Bonewitz Laboratories, Inc. 42
Borden Co., The 18
Bower, Henry, Chemical Mfg. Co. 38
Bowman, Charles, & Co. 58
Brill Equipment Co. 79
Brode Corp., The 78

Capital City Products Co. 78
Carbide & Carbon Chemicals Co., Div. Union Carbide & Carbon Corp. 48
Cary Chemicals, Inc. 72
Celanese Corp. of America, Chemical Div. 84
Chemical & Process Machinery Co. 81
Chemical Service Corp. 82
Chemical Solvents, C. P., Inc. 84
Chemirad Corporation 49
Chemsol, Incorporated 75
Church & Dwight Co., Inc. 36
Cleveland Steel Barrel Co. 43
Columbia Southern Chemical Corp. 36
Commercial Solvents Corp. 11
Concord Chemical Co. 6
Connelly Inc. 52
Consolidated Chemical Industries, Inc. 39
Consolidated Products Co., Inc. 79
Consulting Chemists and Engineers 46
Coupe, Robert A. 44
Croton Chemical Corp. 42

Diamond Alkali Co. 1
Dicalite Division, Great Lakes Carbon Corp. 60
Distillation Products Industries, Div. of Eastman Kodak Co. 57
Dodge & Olcott, Inc. 66
Dreyer, P. R., Inc. 68
Duff Chemical Co., Inc. 40
Dunkel, Paul A., & Co., Inc. 56
Du Pont de Nemours, E. I., & Co., Inc. 47
Duval Sulphur & Potash Co. 28

Eastern Steel Barrel Co. 82
Eastman Chemical Products, Inc. 13
Emery Industries, Inc. 77
Equipment Clearing House, Inc. 81

Fairmount Chemical Co., Inc. 59
Felton Chemical Co., Inc. 24
Fezandie & Sperrle 53
Fine Organics, Inc. 84
First Machinery Corp. 81
Florasynth Laboratories, Inc. 67
Fritzsche Brothers, Inc. 67

Gas Purifying Materials Co. 38
Gelb, R., & Sons, Inc. 79
General Biochemicals, Inc. 78
General Chemical Division 12
Geuder Paeschke & Frey Co. 52
Glycerine Producers Association 19
Gray, William S., & Co. 1
Greeff, R. W., & Co. 58
Gross, A., & Company 78

Hall, The C. P. Co. 58
Hardesty, W. C., Co. 76
Heat and Power Co., Inc. 81
Heyden Chemical Corp. 47
Hoffmann-La Roche, Inc. 2
Hutchinson, D. W., & Co., Inc. 67

Indoil Chemical Co. 74
Innis, Speiden & Co. 40
International Hormones 82
International Minerals & Chemical Corp. 26
International Naval Stores Corp. 72
International Paper Co., Bagpak Division 59

Kay-Fries Chemicals, Inc. 49
Kelco Company 61
Kolon Trading Co., Inc. 42
Koppers Company, Inc. 51

Lanaetex Products, Inc. 60
Lawler Company 81
Leonhard, Theodor, Wax Co., Inc. 78
Lever Brothers Company 48
Loeb, H., & Son 80
Loeb Equipment Supply Co. 82
Lucidol Corp. 48
Lueders, George, & Co. 67

Maas, A. R., Chemical Co. 41
Machinery & Equipment Co. 80
Machinery & Equipment Corp. 81
Magnus, Mabee & Reynard, Inc. 67, 69
Mallinckrodt Chemical Works 35, 75
Mantrose Corporation 70
Manufacturers Products Co. 82
Marine Magnesium Products Corp. 60
Marshall Railway Equipment Corp. 81
Maschmeijer, A., Jr. 68
Matheson Coleman & Bell, Inc. 62
Mathieson Chemical Corporation 17
McKesson & Robbins, Inc. 55
McLaughlin-Gormley-King Co. 45
Meer Corporation 55
Mefford Chemical Co. 61
Metalsalts Corporation 60
Metasap Chemical Co. 15
Midland Tar Distillers, Inc., The 52
Miel, George A., Co., Inc. 78
Mondial Trading Corp. 43, 61
Monsanto Chemical Co. 60, 74
Mutual Chemical Co. of America 53

National Casein 74
National Chlorophyll & Chemical Co. 59
National Lead Co. 20
National Milk Sugar Co. 48
National Rosin Oil Products, Inc. 74
Neville Chemical Company 72
New Jersey Zinc Company 75
Newman Tallow & Soap Machinery Co. 80
Niagara Alkali Company 32
Nitrogen Division Allied Chemical & Dye Corp. 45, 48

Ohio-Apex, Inc. 74
Orbis Products Corp. 68
Oronite Chemical Co. 38

Pacific Coast Borax Co. 1
Parsons-Plymouth, Inc., M. W. 70
Penick, S. B., & Co. 54
Pennsylvania Industrial Chem. Corp. 75
Pennsylvania Refining Company 64
Pennsylvania Salt Mfg. Co. of Washington 14
Penola Oil Co. 25
Perry Equipment Corp. 80
Pfaltz & Bauer, Inc. 61
Pfizer, Chas., & Co., Inc. 33
Phelps Dodge Refining Corp. 42
Philadelphia Quartz Co. 43
Philipp Brothers Chemicals, Inc. 84
Pittsburgh Coke & Chemical Co. 53
Plax Corporation 16
Polak & Schwarz, Inc. 68
Potash Co. of America 45
Prentiss Drug & Chemical Co., Inc. 56
Prior Chemical Corp. 1
Process Plants Service 80
Procter & Gamble 49
Publicker Industries, Inc. 1, 10
Purocaine, Inc. 59

Quaker State Oil Refining Corp. 66

Raney Catalyst Co. 45
Read, Chas., L., & Co., Inc. 44
Republic Chemical Corp. 42
Republic Steel Corp. 51
Richmond Mica Corp. 74
River Plate Corp. 68
Rohm & Haas Co. 22
Rosenthal Bercow Co., Inc. 84
Roure-Dupont, Inc. 68

Sergeant, E. M., Pulp & Chemical Co. 42
Sharples Chemicals Inc. 84
Sheffield Chemical Co., Inc. 71
Shell Chemical Corp. 29
Shell Oil Co., Inc. 64
Sherwood Refining Co. 65
Snell, Foster D., Inc. 83
Socony-Vacuum Oil Co., Inc. 66
Solvay Process Div., Allied Chemical & Dye Corp. 27
Spencer Chemical Co. 42
Stauffer Chemical Co. 37
Stein Equipment Co. 80
Strohmeyer & Arpe Co. 76
Sumner Chemical Co., Inc. 62
Sunkist Growers, Inc. 23
Synthetic Products Co. 74

Tar Residuals, Inc. 52
Tennessee Corporation 45
Terra Chemicals, Inc. 60
Thurston & Braidich 57
Tragacanth Importing Corp. 61
Truland Chemical & Engineering Co. 82
Turner, Joseph, & Co. 38

Ungerer & Company 68
Union Carbide & Carbon Corp., Carbide & Carbon Chemicals Co. Div. 48
Union Standard Equipment Co. 80
U. S. Industrial Chemicals Co., Div. National Distillers Products Corp. 71
United States Potash Co., Inc. 44
U. S. Steel Products Co. 39
Universal Manufacturing Co. 48

van Ameringen-Haebler, Inc. 68
Verona Chemical Co. 66

Waltrow & Company 75
Warwick Wax Company, Inc. 30, 31
Western Condensing Co. 49
Westvaco Chemical Div. 38
Will & Baumer Candle Co., Inc. 76
Wilner Wood Products Co. 74
Wirz, A. H., Inc. 75
Wolf, Jacques, & Co. 61
Wolf-Perry Machinery Co. 80
Wyandotte Chemicals Corp. 40

Young, The J. S., Company 53

Ziegler, G. S., & Co. 73
Zinsser & Co., Inc. 53

Essential Oils

—*Continued from page 68*

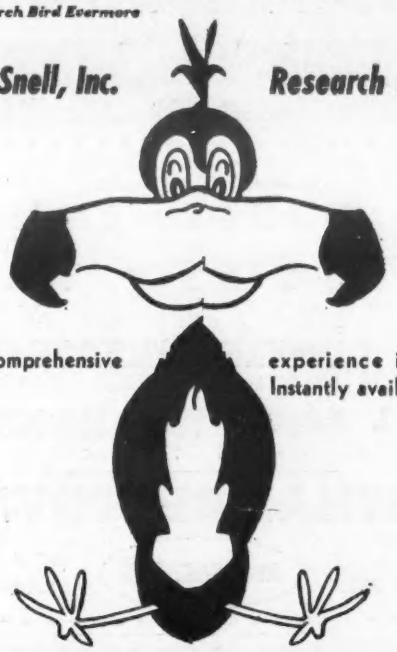
India nutmeg was pegged at 29½c. per pound.

Pepper—The market continued to plummet on both black and white pepper. The former was quoted at 55c. late in week with white pepper at 70c., at the time. Despite unsettled world conditions, consumers have been completely indifferent to any iifluences originating from the explosive situation in Indo-China. The consuming season for pepper has reached a low point and buying has been maintained on a hand to mouth basis, it was said. How much further prices will go remained a matter for conjuncture, in view of the substantial decline that the market has already taken.

Pimento—Jamaica pimento was steady while Mexican material declined 3c. per pound. Whether the decline in Mexican pimento could be ascribed to the recent adjustment in currency values could not be readily ascertained.

Quoth the Snell Research Bird Evermore

the Foster D. Snell, Inc. Research Laboratories



(past knowledge) (future vision)

Combine a most comprehensive field of research. experience in most every Instantly available to you.

A wide range of equipment and facilities is encompassed within the 10 floors of the company owned building. For more than 30 years we have honorably served individual — industry — government.

Whether Your Problem or Project Be Large or Small—here you have

Research Facilities Without Capital Investment At Costs You Can Afford

INQUIRIES INVITED

RESEARCH LABORATORIES
FOSTER D. SNELL INC.
29 WEST 15th ST. NEW YORK 11, N.Y.—WA 4-8800
CHEMISTS · ENGINEERS

FOR MAKERS, MARKETERS OR BUYERS OF TRADE SALES PAINTS

Your Easy-Referenced Fact-Book On Modern Scientific Paints.

WHAT YOU SHOULD KNOW ABOUT PAINT

By E. M. FISHER
Technical Editor, National Painters Magazine

184 Pages Efficiently Indexed, Cloth-Bound in Digest Size $2.50.

Basic, non-technical descriptions of all the many new trade sales paints, their properties, uses and limitations. Detailed discussions of varnishes, synthetic resins, latices and latex paints, pigments, colors, oils and solvents. Comprehensive coverage of interior and exterior coatings and primers of both oil and water-thinned types. Causes of moisture and mildew failures clearly outlined and corrective measures indicated.

The above material is included in the educational aid kit now being used by the Federation of Paint & Varnish Production Clubs. Major paint companies are buying and sending hundreds of copies of this book to their sales and production staffs as well as to their major distributors.

One minute's reference to "What You Should Know About Paint" can save you many times the cost of selecting the wrong finish for a specific surface.

Send Your Order Now to

SCHNELL PUBLISHING COMPANY, INC.
30 Church St., New York 7, N. Y.

GLYCOL ETHERS

Methyl "Cellosolve"* - "Cellosolve"* Solvent - Butyl "Cellosolve"*

*Registered Trade Mark—U.C. & C.C.

CHEMICAL SOLVENTS INCORPORATED

WOrth 2-7763 • MArket 2-3650 60 PARK PLACE NEWARK 2, N. J.

YOUR CONTACT WITH THE WORLD'S MARKETS · ESTABLISHED 1918 ·

DRUGS • CHEMICALS

OILS • WAXES

COPPER SULFATE
(Nichols Triangle Brand)

SAL AMMONIAC BRICKS
White Fused 1 pound net

ROSENTHAL BERCOW CO., INC

23 EAST 26th STREET ROBECO NEW YORK 10, N.Y.
CABLE ADDRESS "RODRUG" MURRAY HILL 3-7500

PENT-ACETATE

(Synthetic amyl acetate)

For additional information, write to Dept. O:

Sharples Chemicals Inc. PHILADELPHIA · CHICAGO · NEW YORK

Celanese*

VINYL ACETATE MONOMER

OFFERS NEW PRODUCT OPPORTUNITIES TO THE PAINT INDUSTRY . . .

WATER-BASED PAINTS
SPECIAL VARNISHES
PROTECTIVE LACQUERS
PRIMER SEALERS
METALLIC FINISHES
SEEPAGE SEALERS
MASONRY PAINTS

Celanese* CHEMICALS

*Reg. U. S. Pat. Off.

Celanese Corporation of America, Chemical Division, 180 Madison Ave., New York 16

---

recognized by outstanding Pharmaceutical Houses as a

LEADING SOURCE FOR DIFFICULT PHARMACEUTICAL SYNTHESIS

Our complete research staff is ready to cooperate with you on all your production problems . . . Let us show you why so many progressive manufacturers rely on FINE ORGANICS to meet their most exacting requirements.

a partial list of Fine Organics products

ALBUMIN TANNATE, medicinal
an astringent in treatment of diarrheas

CALCIUM BOROGLUCONATE, medicinal
a rich source of highly soluble calcium

CALCIUM CAMPHOSULPHONATE, medicinal
a circulatory stimulant

CALCIUM IODOBEHENATE, U.S.P. XIII
a stable organic source of iodine

DISODIUM THORONATE
a THORIUM REAGENT

CAMPHORIC ACID ANHYDRIDE
pharmaceutical intermediate

QUATERNARIES THAT HAVE WON THE APPROVAL OF USERS THROUGHOUT THE COUNTRY

GERM-I-TOL *Higher Alkyl Dimethyl Benzyl Ammonium Chloride*
DICHLORAN . *Higher Alkyl Dimethyl Dichloro Benzyl Ammonium Chloride*
BROMAT . . . *Cetyl Trimethyl Ammonium Bromide (Cetab)*
BRETOL . . . . *Cetyl Dimethyl Ethyl Ammonium Bromide (Ethyl Cetab)*

Write for Prices and Technical Data Sheets to DEPT. E-1

FINE ORGANICS, inc.
211 EAST 19th STREET • NEW YORK 3, N. Y.

Quality Chemicals in *quantity*—

Phibro

INDUSTRIAL CHEMICALS

As exclusive agents, we offer for prompt shipment—

COBALT SULPHATE CRYSTALS 20-21%
COBALT OXIDE BLACK 70-71%
COBALT OXIDE GRAY 74-75%
COBALT ACETATE 23-24%
COBALT CARBONATE 48-49%
COBALT CHLORIDE 24-25%
COBALT HYDRATE 60-61%
COBALT NITRATE 20-21%
COBALT SULPHATE MONOHYDRATE 37-38%
NICKEL SULPHATE
NICKEL CHLORIDE
NICKEL CARBONATE

Philipp Brothers Chemicals, Inc.

37 WALL ST., • NEW YORK 5, N. Y. • HAnover 2-4676
Cable Address: PHIBROCHEM NEW YORK
BOSTON 10, MASS. · PORTLAND, CONN.
PROVIDENCE 3, R. I. · PHILADELPHIA 6, PA. BALTIMORE 1, MD.